



Digitized by the Internet Archive
in 2024

Microbiology Abstracts Section A

Industrial & Applied Microbiology

Annual Subject, Patentee & Assignee and Author

INDEXES

to Volume 12 1977

QR
53

I 5322

v. 12

1977

INDEX

mlc



ISSN 0300-838X

Compiled by
Information Retrieval Limited
London & Washington DC

U. S. C. G.
MAR 19 1979
LIBRARY

Microbiology Abstracts Section A

Industrial & Applied Microbiology

Annual Subject, Patentee & Assignee and Author

INDEXES

to Volume 12 1977

Editor Elizabeth T.Winton

Assistant editor Julia Corbin



ISSN 0300-838X

Compiled by
Information Retrieval Limited
London & Washington DC

Information Retrieval publications

Abstracts Journals

Amino-acid Peptide & Protein Abstracts
Animal Behaviour Abstracts
Applied Ecology Abstracts
Aquatic Sciences & Fisheries Abstracts
Biological Membrane Abstracts
Calcified Tissue Abstracts
Chemoreception Abstracts
Entomology Abstracts
Feeding, Weight & Obesity Abstracts
Genetics Abstracts
Immunology Abstracts
Microbiology Abstracts:
 Industrial & Applied Microbiology
 Bacteriology
 Algology, Mycology & Protozoology
Nucleic Acids Abstracts
Oncology Abstracts
Virology Abstracts

A list of source periodicals used in the preparation of these abstracting services is available free of charge on request.

Periodical

Nucleic Acids Research

Books

Symposium Proceedings

Transduction Mechanisms in
 Chemoreception
Structure-Activity Relationships in
 Chemoreception
Third Symposium on the Chemistry of
 Nucleic Acids Components
Fourth Symposium on Nucleic Acids
 Chemistry
Biological Separations in Iodinated
 Density-Gradient Media
Immunologic Aspects of Dental Caries
Microbial Aspects of Dental Caries
Phosphorylated Proteins and
 Related Enzymes

Bibliographies

Obesity 1964-1973
Bibliography on Mycoplasma
Time: A Bibliography
Rapid Methods & Automation in
 Microbiology & Immunology:
 A Bibliography

© 1977 Information Retrieval Limited
All rights reserved by the publisher.
No part of this publication may be
reproduced or transmitted in any form
by any means, electronic or mechanical,
including photocopying, recording or
any information storage and retrieval
system, without permission in writing
from the publisher.

Airfreight and mailing in the USA by
Publications Expediting Inc., Elmont, L.I.
200 Meacham Avenue, NY 11003

Printed by
Information Printing Ltd. Oxford, England

Published by Information Retrieval Ltd
London, England

Preface

From 1976, IRL has adopted a new system for preparation of annual subject indexes. The new system is based on the use of key word listings derived from the previous free-term indexes.

For each abstract, the indexer selects terms from a fixed list of key words, which is continually updated. This list contains terms which will appear as entry points in the index, and subsidiary descriptor terms.

Example (1) –

Title of abstract – Fungicides and timing for control of sugarbeet powdery mildew.
(A 803)

Indexing terms used – fungicide; plant protection; sugarbeet; Beta vulgaris; powdery mildew; Erysiphe polygoni; benomyl; triarimol; sulphur; BAY MEB 6447

Index chains derived – Abstract number

Fungicide, Erysiphe polygoni, sugarbeet.	803
Plant protection, fungicide, sugarbeet, Erysiphe polygoni.	803
Sugarbeet, Erysiphe polygoni, fungicide.	803
Beta vulgaris, Erysiphe polygoni, fungicide.	803
Powdery mildew, Erysiphe polygoni, sugarbeet, fungicide.	803
Erysiphe polygoni, sugarbeet, fungicide.	803
Benomyl, Erysiphe polygoni, sugarbeet.	803
Triarimol, Erysiphe polygoni, sugarbeet.	803
Sulphur, Erysiphe polygoni, sugarbeet.	803
BAY MEB 6447, Erysiphe polygoni, sugarbeet.	803

Example (2) –

Title of abstract – Mycotoxins in foodstuffs. VI.

Formation of sterigmatocystin in bread by Aspergillus versicolor. (A 6986)

Indexing terms used – sterigmatocystin; whole rye; bread; Aspergillus versicolor.

Index chains derived – Abstract number

Sterigmatocystin, Aspergillus versicolor, whole rye bread.	6986
Bread, whole rye, sterigmatocystin, Aspergillus versicolor.	6986

Index chains derived (cont'd) —

Abstract number (cont.)

Aspergillus versicolor, sterigmatocystin, whole rye
bread.

6986

From the terms selected, several chains of key words are derived, their word order being determined by the indexer. The terms are separated by the following:

1. comma — used to separate terms as in a normal sentence
2. hyphen — used to indicate a relationship between terms
3. oblique — used to indicate an alternative
4. plus sign — used to indicate a combination
5. cross — used as a hybrid sign.

The chains thus generated are sorted by computer. Throughout the index, cross-references are included. These are of two main types:

1. directing the user from one synonym to another, for example, Ascorbic acid, see Vitamin C, and
2. guiding the user from the general to the more specific, for example, Alcoholic beverage, see also under individual types.

Subject index

- A23187,**
assay, *Staphylococcus aureus* 8062
- Abaca,**
abaca mosaic virus 5293
- Abaca mosaic virus,**
abaca 5293
Cassia occidentalis 5293
Ipomoea aquatica 5293
sweet potato 5293
- Abacarus hystrix,**
ryegrass mosaic virus, Italian ryegrass 1036
6226
- Abattoir,**
chicken carcass hygiene 7523
cold water ultra-high pressure cleaning 5813
disinfectant, Kezoosol-II 4897
disinfection 7522 9238
hygiene 5812 6745 7524
pig carcass, *Escherichia coli*, antibiotics
resistance 7299
pig, *Salmonella* 9239
pig slaughtering hygiene 742
Salmonella 5814
Salmonella, pig carcass 8260
surface sampling, contact plate method/swab
method 7521
veal calf carcass, *Salmonella* 1521
- Abattoir waste,**
antibacterial agent/antifungal agent,
cinnamyl phenols 532
- Abelmoschus esculentus,**
Alternaria/Pleospora infectoria 1909
Cercospora hibisci 1069
Choanephora cucurbitarum, culture, light
3199
Erysiphe cichoracearum 322 1069
Fusarium oxysporum, soil treatment 9969
Fusarium roseum, soil treatment 9969
Fusarium solani, soil treatment 9969
okra leaf curl virus 4398
okra mosaic virus 4398
Pythium, soil treatment 9969
Rhizoctonia bataticola, pectin
methyltransferase/endopolygalacturonase/exopoly
galacturonase/polygalacturonate
trans-eliminase/cellulase 1070
Rhizoctonia solani 1069
seed, Aspergillus flavus 1838
- Abelmoschus esculentus x Abelmoschus manihot,**
resistance, okra yellow vein mosaic virus
4469
- Abelmoschus manihot x Abelmoschus esculentus,**
resistance, okra yellow vein mosaic virus
4469
- Abicoviomycin,**
yeasts 2170
- Abies,**
Fomitopsis annosa, rhizosphere microflora
408
- Abies alba,**
Acanthostigma parasiticum 5449
Herpotrichia parasitica 3605
Rhemiellopsis abietis 5449
wood preservative 8013
- Abies amabilis,**
Herpotrichia parasitica 2833
- Abies balsamea,**
Pucciniastrum goeppertianum 8000
- Abies concolor,**
Fomes annosus 3608
- Abies grandis,**
Armillaria mellea, wetwood 7235
decay fungi 5446
Fomes annosus, sapwood dry zones 7233
Fomes annosus, wetwood 7235
Phellinus weirii 7232
- Abies lasiocarpa,**
decay fungi 5446
- Abies nordmanniana,**
Herpotrichia parasitica 3605
- Abies procera,**
Herpotrichia parasitica 3605
- Abies sachalinensis,**
soil, Tricholoma matsutake 5443
- Abies sibirica,**
Melampsora cerastii 6394
soft resin, antibacterial agent/antifungal
agent 8094
- Abies veitchii,**
Herpotrichia parasitica 3605
- Abrus precatorius,**
Clitoria yellow vein virus 5181
- Abscisic acid,**
Aspergillus niger 3698
Aspergillus terreus 3698
- Absidia,**
acid-treated corn 2623
alpha-galactosidase 9391
mouldy hay, sedimentation chamber 3163
perennial ryegrass rhizosphere, chloropicrin
457
wood chips 10023
- Absidia blakesleana,**
oil plum kernels 4220
- Absidia corymbifera,**
biomass/protein 1622
coal mine soil 2062 5479
econazole 2974
miconazole 2974
- Absidia griseola,**
alpha-galactosidase 842 9391
- Absidia hyalospora,**
alpha-galactosidase 9391
- Absidia lichtheimii,**
enzymes 9350
alpha-galactosidase 9391
- Absidia ramosa,**
alpha-galactosidase 9391
milk-clotting enzyme, Cheddar cheese 7753
stored rapeseed 6324
- Absidia reflexa,**
alpha-galactosidase 9351
- Absidia regnieri,**
alpha-galactosidase 9391
- Absidia spinosa,**
pigeon pea rhizosphere 6422
- Acacia,**
Ravenelia acaciae-concinnae/Uredo 2723
- Acacia arabica,**
Ravenelia evansii 2722
- Acacia catechu,**
Ravenelia tanconii 2722
- Acacia cyanophylla,**
nodules, nitrogen fixation 8897
- Acacia eburnae,**
Ravenelia esculenta 2722
- Acacia modesta,**
Ravenelia taslimii 2728
- Acacia mucronata,**
Phytophthora cinnamomi 8597
- Acacia myrtifolia,**
Phytophthora cinnamomi 8596
- Acacia robusta,**
Ravenelia acaciae-arabicae 2722
- Acacia senegala,**
Ravenelia acacicola 2725

Subject index

- Acanthostigma parasiticum**,
white fir 5449
- Acanthus mollis**,
cucumber mosaic virus 5247
- Acaricide**,
antibiotic 9-41 625
- Acaulospora laevis**,
mycorrhizae, soil phosphate 8876
- Acenaphthene**,
Basidiobolus ranarum 513
- Acenaphthylene**,
degradation, marine bacteria 480
- Acer caesium**,
Septoria gureza 10009
- Acer macrophyllum**,
Phellinus weirii 7232
- Acer platanoides**,
Verticillium albo-atrum, electrical
resistance 8857
- Acer rubrum**,
resistance, Lenzites trabea 420
- Acer saccharum**,
chip piles, fungi 421
microflora 8856
Verticillium albo-atrum, electrical
resistance 8857
- Aceria tulipae**,
wheat streak mosaic virus, immunofluorescence
7891
- Acetaldehyde**,
bacterial, milk, gas-liquid chromatography
919
Enterobacter 5142
seed treatment, Xanthomonas campestris,
Brussels sprout 8830
Torulopsis colliculosa, acetoin 5142
Ustilago nuda 6377
- Acetate**,
colostrum preservation 5649
Escherichia coli, hydrogen 9476
Streptococcus cremoris, glucose culture 4196
Streptococcus diacetylactis, glucose culture
4196
- Acetic acid**,
Acetobacter 7597
Acetobacter, vinenar 5184
Bacillus licheniformis, redox potential 8313
bacterial culture, methane 8936
bacterial methane 2911
bacterial, milk, gas-liquid chromatography
919
beef 7767
cucumber pickle, Clostridium botulinum 221
grain preservation 1796
immobilized Acetobacter 1620
packaged beef 9676
silage fermentation 2601
soil, phytotoxin, wheat straw degradation
7251
Ustilago nuda 6377
waste whey fermentation 4852
- Acetoacetic acid ester**,
+ phenols, fungicide/bactericide 2133
poly-, + phenols, fungicide/bactericide 2132
- Acetobacter**,
acetic acid 7597
brewery, hygiene 8444
gluconate dehydrogenase 845
2-ketogluconate dehydrogenase 845
vinegar 5164
- Acetobacter aceti**,
acetyl CoA-synthetase 4062
gluconate dehydrogenase 845
2-ketogluconate dehydrogenase 845
waste treatment, hydrocarbon 2715
- Acetobacter acetoxylum**,
enzymatically-active protein cell membrane
complex 5912
- Acetobacter aurantium**,
gluconate dehydrogenase 845
- Acetobacter aurantium (Contd)**,
2-ketogluconate dehydrogenase 845
- Acetobacter melanogenum**,
L-sorbose, D-sorbitol 2512
- Acetobacter melanogenum**,
glucose fermentation, 2,5-diketo-D-gluconic
acid 6828
- Acetobacter rancens**,
brewery, culture medium 7699
- Acetobacter suboxydans**,
L-dendroketo-, alditol oxidation 8403
enzymatically-active protein cell membrane
complex 5912
immobilisation, alditol oxidation, aldose
diethyl dithioacetal oxidation 5883
L-leucine-alpha-ketoglutarate transaminase
5959
- Acetobacter turbidans**,
enzyme, cephalixin 8136
- Acetobacter xylinum**,
cellulose microfibrils 8405 8406 8407
- Acetoin**,
Enterobacter 3345 5142
Saccharomyces uvarum, beer 96
Torulopsis colliculosa 3345 5142
yeasts 2344
- Acetomonas oxydans**,
myo-inositol dehydrogenase 9420
- Acetone**,
bacterial, milk, gas-liquid chromatography
919
Clostridium acetobutylicum 6955
Methylosinus trichosporium, ethane 2095
Streptococcus pyogenes 4975
- Acetophenone**,
7,5-dihalo-4-hydroxy-, fungicide 8076
2-bromo-2-hydroxyimino-, derivatives,
antibacterial agent 8065 8066
derivatives, bacteriostat 2108
- N-acetyl-Salpa-tomatanin-3beta-ol**,
dehydrogenation, Nocardia restrictus 9439
- Acetyl-CoA carboxylase**,
Candida lipolytica 4060 4061
- Acetyl CoA-synthetase**,
Acetobacter aceti 4062
- N-Acetyl-daunorubicin**,
Bacillus cereus, antitumour antibiotic 9459
- N-Acetyl-daunorubicinol**,
Bacillus cereus, antitumour antibiotic 9459
- Acetyl-kanamycin amidohydrolase**,
Streptomyces kanamyceticus, kanamycin 2181
- Acetyl kidamycin**,
antitumour antibiotic 8416
- 2,3-bis(Acetyl mercaptomethyl)-quinoxaline**,
herpes simplex virus 4685
- Acetylation**,
virginiamycin M factor, Staphylococcus aureus
9161
- N-Acetylation**,
daunorubicin, Bacillus cereus, antitumour
antibiotic 9459
daunorubicinol, Bacillus cereus, antitumour
antibiotic 9459
- N-Acetylcysteine**,
antibiotics 10238
- (-)-11-Acetyldehydrocurvularin**,
Cercospora 7826
- Acetylene assay**,
denitrification, soil 10057
nitrogen fixation, soil 10057
- Acetylene reduction**,
Enterobacteriaceae, paper mill water system
1493
- Acetylene reduction assay**,
Lupin 2889
nitrogen fixation 3220 7272
nitrogen fixation, alder 2877
nitrogen fixation, Rhizobium trifolii +
clover 2882
nitrogen fixation, rice 8896

Subject index

- Acetylene reduction assay (Contd),**
nitrogen fixation, soil microorganisms 10058
- Acetylene reduction test,**
nitrogenase, *Methylococcus capsulatus* 2380
- Acetylenic sulphone,**
fungicide 512 2951
- alpha-N-Acetylglactosaminidase,**
endo-, *Diplococcus pneumoniae* 1633
- N-Acetylglucosaminyl ribitol teichoic acid,**
Staphylococcus aureus, degradation, *Bacillus*
circulans enzyme 864
- beta-N-Acetylhexosaminidase,**
Streptococcus 6646 K 1632
- 2-Acetylindole,**
halogen derivatives, antibacterial
agent/antifungal agent 5597
- N-Acetylmuramidase,**
Streptomyces griseus lytic enzyme 827
- N-Acetylneuraminate lyase,**
Clostridium perfringens 5915
- Achaetomium macrosporum,**
coal mine soil 2062 5479
- Acharomycin,**
curd rot, cauliflower 402
- Achillea ptarmica,**
Erysiphe cichoracearum 304
- Acholeplasma,**
fluorogenic tests 10577
proteins, polyacrylamide gel isoelectric
focusing 3211
reference antisera, assay 5847
- Acholeplasma granularum,**
microcalorimetry 3210
- Acholeplasma laidlawii,**
735
membrane proteins, Tween 20,
agarose-suspension electrophoresis 5897
microcalorimetry 3210
NADH dehydrogenase 3294
serum protein 2402
thiopeptin assay, chicken feed 7786
- Achras sapota,**
Pestalotiopsis versicolor 2774
- Achromobacter tartarogenes,**
D-tartrate epoxidase, D-tartaric acid 813
- Achromobacter,**
activated sludge, non-ionic surfactant
degradation 1709
cream dessert 3384
cured pork + pickles 3399
cyanide resistance 2536
enzyme, cephalixin 8136
forest soil 7255
hydrocarbon degradation, sea water 2912
milk 8481
milk, proteolysis/lipolysis 142
rhizosphere, molybdenum 6415
sewage, antibiotic + inorganic metal
resistance 2925
soil, denitrification 443
soil, herbicide degradation 5503
soil, petroleum waste 6460
sublimation dehydration preservation 2981
vacuum-packaged trout, gamma-irradiation
5258
white pomfret, gamma-irradiation 4245
wild rice fermentation 2549
- Achromobacter acinus,**
D-tartaric acid 5892
D-tartrate epoxidase, D-tartaric acid 813
- Achromobacter aquamarinus,**
thermoradiation 1277
- Achromobacter epoxyliticus,**
D-tartaric acid 5892
- Achromobacter hydrophylus,**
sulphanilamide-metal complexes 10148
- Achromobacter lipolyticum,**
enzymes, food 134
- Achromobacter lunatus,**
bacteriolytic enzyme, immobilisation 6851
- Achromobacter sericatus,**
D-tartaric acid 5892
- Achromobacter tartarogenes,**
D-tartaric acid 5892
- Achromycin,**
mycoplasma-like organism, citrus greening,
sweet orange 5355
mycoplasma-like organism, little leaf
disease, eggplant 5372
mycoplasma-like organism, sandal spike,
sandal 5464
- Achryanthus aspera,**
extracts, antifungal agent, plant protection
9956
- Achylla stellata,**
soil 6425
- Aciculosperrum take,**
bamboo 8622
- Acid,**
microbial, pyritic mine spoil 7284
Saccharomyces carlsbergensis, microelements
8434
- Acid, amino,**
see Amino acid
- Acid-fast bacterium,**
machine staining/manual staining,
fluorescence microscopy 4955
- Acid-fast smear,**
Mycobacterium tuberculosis 1572
- Acid-fast stain,**
Mycobacterium 4956
- Acid mine drainage,**
Thiobacillus ferrooxidans, immunofluorescence
462
- Acidophilus milk,**
Lactobacillus acidophilus 4193
- Acinetobacter,**
cephalosporins 2194
Cheddar cheese 6062
chicken leg muscle spoilage 8506
dental clinic water 10479
fuel tank, organic acids 4617
gentamicin resistance, tobramycin 6484
hydrocarbon degradation, sea water 2912
alpha-mannosidase 8373
milk, proteolysis/lipolysis 142
mineral water 5796
netilmicin/gentamicin/tobramycin/amikacin
5750
Netilmicin/gentamicin/tobramycin/sisomicin
5751
oil degradation, mercury 4623
Pacific shrimp 7020
phospholipase C, milk 5208
polymyxins 4779
poultry carcass 2578
prepackaged beef, carbon monoxide, shelf-life
2613
prepacked herring 4246
radurized Vienna sausage 2615
respirator aerosol sampler 16492
sewage, polyethylene glycols degradation
6022
sulphadiazine + antibiotics, resistance 8945
sulphamethoxazole-trimethoprim 2941
test 1561
vacuum-packaged beef 6127
vacuum-packaged lamb 7804
- Acinetobacter anitratus,**
cefuroxime/cephalothin 10277
- Acinetobacter calcoaceticus,**
amikacin 7427
aminoglycoside antibiotics 1319
carbenicillin +
kanamycin/tobramycin/gentamicin 9C51
catechol 1,2-dioxygenase 18
catechol 1,2-dioxygenase, 3-methylcatechol
5924
cephalosporin derivatives 5665
frozen erythrocytes 1293

Subject index

- Acinetobacter calcoaceticus(Contd),**
gentamicin resistance, tobramycin 6484
NADPH dependent alcohol dehydrogenase 6856
rubredoxin 2447
skin, soap/deodorant soap 5816
tobramycin 6656
- Acinetobacter glutaminasificans,**
L-glutaminase-asparaginase 9403
- Acinetobacter lwoffii,**
amikacin 7427
- Acinetobacter phosphovorius,**
phosphorous removal, wastewater 10467
- Aconitase,**
Candida albicans 5914
- Acremonium,**
ethane 483
fungi 110
- Acremonium charticola,**
mine rubberized ventilation tube 4180
- Acremonium chrysogenum,**
penicillanic acid derivative, antibacterial agent 5078
- Acremonium implicatum,**
apple post-harvest decay 4431
- Acremonium luzulae,**
virescenside D, structure 6963
virescenside E, structure 9485
virescenside H, structure 6962
virescenside L, structure 9485
- Acremonium rutilum,**
auricula tree 1837
- Acremonium strictum,**
corn 9786
- Acridine,**
derivative, antiviral agent 1250 1251
derivatives, antibacterial agent 3691
fluorinated derivatives, antifungal agent 5577
- Acridine orange,**
Streptomyces aureofaciens, chlortetracycline 3794
- Acriflavine,**
isolation medium, Listeria monocytogenes 10569
penicillin resistance, Lactobacillus fermenti 1204
- Acrocyndrium oryzae,**
rice 7686 8644
- Acrodontium album,**
forest soil 8019
- Acroptilon repens,**
Leveillula 4297
- Acrostalagmus,**
terpenoid, LL-21271alpha 5156
- Acrylamide,**
poly-, Rhodospirillum rubrum chromatophores immobilization 2415
- Acrylic acid,**
derivatives, antibacterial agent 6502
- Actidione,**
Melampora larici-populina, poplar 2047
yeasts 2170
- Actinobacter,**
dry sausage 3400
- Actinobifida,**
glycoside-hydrolase inhibitor 80
- Actinobifida dichotomica,**
soil 2056
- Actinocarcin,**
structure 2245
- Actinoidin,**
antibacterial agent 3817
- Actinoidin A,**
structure 2246
- Actinoidin B,**
structure 2246
- Actinoidine,**
peptides/aglycones, Edman method 9118
- Actinomadura carminata,**
carminomycin 9131 10352
- Actinomadura carminata(Contd),**
carminomycin, ultraviolet radiation 5725
- Actinomadura coeruloviolacea,**
antibiotics 5618
pigment 5618
- Actinomadura flava,**
madumycin 4810
- Actinomucor,**
fermented food 4190
- Actinomyces,**
see also Streptomyces 4996
actinomycin C 2247 4790
antibiotic 5622
antibiotics 4784
cephalosporins 3010
cephamycins 9056
dental plaque, isolation medium 6768
enzyme immobilization 2
josamycin/rosamicin/clindamycin 2190
penicillins 3010
protease inhibitor 6962
soil, Rhizobium 3645
thin-layer chromatography 9262
- Actinomyces antibioticus,**
oleandomycin 1375 3047
- Actinomyces aureofaciens,**
culture, tetracycline 7417
tetracycline 1378 1379 3051 3052 4781 4782 10328
- Actinomyces bottropensis,**
antibiotic 792, antitumour
antibiotic/antibacterial agent/antifungal agent 5114
- Actinomyces carminata,**
carminomycin 10361
- Actinomyces cinerosus,**
yeast-lytic enzyme, Saccharomyces cerevisiae/Candida tropicalis/Rhodotorula 2954
- Actinomyces coerulorubidis,**
carminomycinone glycosylation 8419
rubomycin glycosylation 8419
- Actinomyces coerulorubidis,**
rubomycin 2269 4823
- Actinomyces erythreus,**
erythromycin 6604
- Actinomyces globispororoseus,**
granaticin 5740
granaticin B 5740
- Actinomyces griseus,**
soil, Rhizobium 3646
- Actinomyces hygroscopicus,**
nyphimycin A1-scopafungin, antibacterial agent/antifungal agent 644
proteolytic enzyme 5093
- Actinomyces israelii,**
antibacterial agent 7369
antibiotics 7369
dental plaque, isolation medium 6768
- Actinomyces janthinus,**
protease inhibitor 6962
- Actinomyces kurssanovii,**
chitinase 21 9373
chitinase 21
- Actinomyces lavendulae,**
cholesterol degradation 5190
- Actinomyces levoris,**
amphotericin, sunflower oil cake meal 10224
levorin 10379
levorin, streptomycin 10306
- Actinomyces naeslundii,**
dental plaque, iodine-containing compounds 10504
dental plaque, isolation medium 6768
- Actinomyces nodosus,**
amphotericin B, streptomycin 10306
levorin, sunflower oil cake meal 10224
- Actinomyces noursei,**
nystatin 6608 8170 9107

Subject index

- Actinomyces odontolyticus**,
dental plaque, isolation medium 6768
- Actinomyces olivaceus**,
vitamin K 2530
- Actinomyces olivocinereus**,
helio mycin 6639
- Actinomyces parvullus**,
actinomycin D 4791 5711
lyophilisation, preservation 7357
- Actinomyces pneumonicus**,
altamycin A 4792
altamycin B 4792
- Actinomyces recifensis**,
lytic enzyme, antibacterial agent/antifungal agent 2480
- Actinomyces resistomycificus**,
helio mycin 1386
resistoflavin 1384
- Actinomyces rimosus**,
oxytetracycline 1381 4739 8131 9111 10263
ribonuclease 862
ribonuclease, antiviral agent 9001
- Actinomyces roseoflavus**,
antibiotics 5620
polyene antibiotic 4747 5619
- Actinomyces roseolus**,
isoflavones 6960 6961
lincomycin 619 1273 8131 10263
- Actinomyces spheroides**,
fibrinolytic enzyme, culture medium 44
- Actinomyces streptomycini**,
polyene antibiotics 4822
soil, Rhizobium 3646
- Actinomyces subtropicus**,
albomycin 6622
- Actinomyces thermovulgaris**,
protease 6915
- Actinomyces tropicalis**,
+ *Candida albicans*, levorin + levoristatin 4809
- Actinomyces umbriferus**,
melanin pigment 6946
- Actinomyces violaceus confusus**,
protease inhibitor 6962
- Actinomyces violaceus vicinus**,
protease inhibitor 6962
- Actinomyces violatus**,
protease inhibitor 6962
- Actinomyces viscosus**,
dental plaque, iodine-containing compounds 10504
dental plaque, isolation medium 6768
- Actinomyces werraensis**,
antibiotic 10223
- Actinomycetaceae**,
dental plaque, isolation medium 6768
- Actinomycetales**,
4996
alpha-amylase, inhibitor, microbial
alpha-amylase, affinity chromatography 9357
lecithinase 5075
purine degradation 119
soil, Phytophthora 5481
soil, Pythium 5481
- Actinomycetes**,
antibiotics 10235
marine, petroleum degradation 10111
mouldy hay, sedimentation chamber 3163
oil palm kernels 4220
polyene antibiotics 4822
protease inhibitor, human complement 5907
soil 1164
soil, humate 2359
soil, montmorillonite 2859
soil, novobiocin isolation medium 5471
soil, weather 3630
vineyard soil, intercalary ray grass culture 426
- Actinomycin**,
antibiotic 70591, *Micromonospora floridensis*,
antibacterial agent/antifungal agent 1389
Streptomyces antibioticus 3834
Streptomyces parvulus 10347
yeasts 2170
- Actinomycin C**,
Actinomycetes 2247 4790
- Actinomycin D**,
+ polyinosinic acid-polycytidylic acid,
interferon 10180
Actinomycetes parvullus 4791 5711
circular dichroism 9119
electronic spectrum 5713
resistance, *Meisseria gonorrhoeae* 2099
Streptomyces parvulus 5712
tobacco necrosis virus, *Chenopodium amaranticolor* 4425
- Actinomycin K1c**,
Streptomyces parvulus 8174
- Actinomycin K1t**,
Streptomyces parvulus 8174
- Actinomycin K2c**,
Streptomyces parvulus 8174
- Actinomycin K2t**,
Streptomyces parvulus 8174
- Actinomycins**,
Streptomyces antibioticus 2248
- Actinone**,
yeasts 2170
- Actinoplanes**,
antibiotic A-4696 624
chemotaxis chamber 3952
glycoside-hydrolase inhibitor 80
- Actinoplanes deccanensis**,
lipiarmycin, antibacterial agent 8186
- Actinoplanes garbadinensis**,
gardimycin 1417 1418 1419
- Actinoplanes ianthiogenes**,
purpuramycin, antibacterial agent/antifungal agent 10402
- Actinoplanes liguriae**,
gardimycin 1417 1418 1419
- Actinoplanes missouriensis**,
fungal oospore parasite, soil 5381
glucose isomerase 9397
- Actinoplanes nipponensis**,
antibiotic 41012, antibacterial agent 10334
- Actinoplanes philippinensis**,
antibiotic A2315A, structure 9115
antibiotic A-2315 623 3799
- Actinoplanes tsinanensis**,
Chuangxinmycin, antibacterial agent 10363
- Actinorhodin**,
Streptomyces coelicolor, antibacterial agent 3062
- Actinoxanthin**,
antitumour agent/antibacterial agent 5120
- Activated charcoal**,
betulin, cider 1809
- Activator**,
yeast DNA photolyase 9381
- Actol**,
hydrogen peroxide, *Candida albicans*/Trichophyton
mentagrophytes/*Aspergillus niger* 2553
- Aculeacin A**,
Aspergillus aculeatus, antifungal agent 10348 10350
- Aculeacin B**,
Aspergillus aculeatus, antifungal agent 10349
- Aculeacin C**,
Aspergillus aculeatus, antifungal agent 10349
- Aculeacin D**,
Aspergillus aculeatus, antifungal agent 10349

Subject index

- Aculeacin E,**
Aspergillus aculeatus, antifungal agent 10349
- Aculeacin F,**
Aspergillus aculeatus, antifungal agent 10349
- Aculeacin G,**
Aspergillus aculeatus, antifungal agent 10349
- Aculeacins,**
Aspergillus aculeatus, antifungal agent 8175
- N-Acyl-L-methionine,**
2424
microbial serine proteinase 2424
- AcyI phosphatidylglycerol,**
Pseudomonas BAL-31 3346
- Acylanilide,**
degradation, Bacillus sphaericus, aryl acylamidase 901
- Acylase,**
Escherichia coli,
(beta-methyl-3H)-6-amino-penicillanic acid 2219
microbial, 7-aminocephalosporanic acid derivatives 2207
- Acyrtosiphon pisum,**
Fusarium roseum, alfalfa 6174
Fusarium roseum, red clover 6174
Fusarium roseum, white clover 6174
- Adamantanamine,**
derivatives, influenza virus, DARC/PELCO system 2964
- Adamantane,**
see also Amantadine
derivatives, antiviral agent 2963 4679 4680 8086
derivatives, classic fowl plague virus 4681
derivatives, influenza virus 4681
1-difluoramino-, herpes virus 2147
- Adamantyl thioamide,**
derivatives, antiviral agent, Newcastle disease virus 2126
- Adaptation,**
fungi, fungicides, paper 4615
- Adenanthera pavonina,**
+ Rhizobium, nodulation, nitrogen fixation 8900
- Adenine arabinoside,**
+ interferon, antiviral agent 5584
- Adenine arabinoside 5-monophosphate,**
+ interferon, antiviral agent 5584
- Adenine nucleotide,**
6-N-phosphoramidate, agrocin 84,
Agrobacterium radiobacter 5991
- Adenocarcinoma 755,**
Proteus mirabilis lipopolysaccharide 3337
- Adenosine,**
methylthio-, fungal 1687
- Adenosine diphosphate,**
see ADP
- Adenosine monophosphate,**
see AMP
- Adenosine triphosphatase,**
Bacillus megaterium, atabrin 5561
Escherichia coli 9 10 5046
Escherichia coli, atabrin 5561
Micrococcus lysodeikticus, atabrin 5561
- Adenosine triphosphate,**
see ATP
- Adenostemma viscosum,**
Oidium 2665
- Adenosylmethionine,**
decarboxylated, Escherichia coli
adenosylmethionine decarboxylase 5916
- S-Adenosylmethionine,**
fungal 1687
yeasts 871
- Adenosylmethionine decarboxylase,**
Escherichia coli, decarboxylated
adenosylmethionine 5916
- Adenovirus,**
activated sludge 6673
adamantane derivatives 4680
African green monkey kidney EGM cell line 790
aminophenyl-adamantane derivatives 2963
caffeic acid 8997
3-deazaguanine/3-deazaguanosine/3-deazaguanyl
ic acid 10163
formaldehyde 5523
Liquid antibody microculture plaque assay 10626
radioactive labelling, chloramine T
iodination 9300
resistance, formaldehyde 5523
swimming pool 3143
water, chlorination 1500
- Adenylate cyclase,**
Bordetella pertussis 1636
Escherichia coli, Vibrio cholerae enterotoxin 9743
- Adenylate kinase,**
Streptomyces aureofaciens 3297
- Adhatoda vasica,**
Alternaria alternata 1837
Botryodiplodia theobromae 1837
Chaetomium globosum 1837
Colletotrichum capsici 1837
Nigrospora oryzae, Adhatoda vasica,
Drechslera speciferum 1837
- Adhesive,**
antibacterial agent, hexamethylenetetramine +
3,4-dichlorobutene-1 1213
antifungal agent/antibacterial agent,
paradol 3721
antifungal agent/antibacterial agent,
quaternary ammonium salt 470
bactericide/fungicide, benzisothiazolinone +
quaternary ammonium compound 4687
fungicide 2053
fungistat/bacteriostat, benzisothiazole-3-one
derivatives 534
preservative, cinnamyl phenols 532
- Adina cordifolia,**
Cercospora adinicola 998
- Adjuvant,**
immunological, Mycobacterium 3226
immunological, Nocardia 3226
Mycobacterium 1571
Mycobacterium kansasii 2532
Mycobacterium tuberculosis 2532 4134
Mycobacterium, vaccines 8201
oil, benomyl, plant protection 2791
polymethylmethacrylate, influenza virus
vaccine 4833
vaccines 5768
- ADP,**
Aspergillus parasiticus, aflatoxins 4256
- ADP-glucose pyrophosphorylase,**
Escherichia coli 6853
- ADP-glucose synthase,**
Escherichia coli 6854
- Adriamycin,**
+ DNA, antitumour antibiotic 2525
derivatives, DNA 9121
DNA 9122
Fisher lymphadenosis, rubomycin resistance 9120
nuclear magnetic resonance spectroscopy 3338
pre-resonance Raman spectrum 2249
Staphylococcus aureus, rubomycin resistance 9120
- Aecidium,**
8291
- Aecidium esculentum,**
Acacia eburnae 2728
- Aecidium leae,**
Cissus elongata 2662

Subject index

- edes aegypti*,
 - cell culture, amphotericin B/amphotericin B methyl ester 10325
- edes aegypti* denso nucleosis virus,
 - glycerol preservation 9015
- edes triseriatus*,
 - insecticidal microbial film 86
- Epilanthus gamuelliae*,
 - Fusarium oxysporum + Meliodoglyne javanica 2750
- eration*,
 - activated sludge effluent 5790
 - rotating, pig slurry, picornavirus 4857
 - sewage 3888
 - sewage lagoon 1482
 - soil, denitrification 2054
 - surface, cattle slurry, hygiene 6705
 - surface, pig slurry, hygiene 6705
 - waste treatment 1469
 - wastewater treatment 1484
- eration capacity*,
 - fermenter, fast-response oxygen electrode 7693
- eration tower*,
 - wastewater treatment 6682 6683
- erator*,
 - multiple jet, wastewater treatment 3882
- erial infrared imagery*,
 - Calonectria crotalariae, peanut 6191
- erobacter*,
 - brewery, hygiene 8444
 - cephalosporin derivatives 1340
 - gentamicins 9090
 - glucose dehydrogenase,
 - D-gluconic-delta-lactam 1435
 - penicillin derivatives 6589 6590 7405 7406 10295
 - quinoxaline-1,4-dioxide derivatives 3689
 - ureidoacetamido-penicillin derivatives 8161
- erobacter aerogenes*,
 - see also Klebsiella aerogenes
 - 5-hydroxy-1-[[[5-nitro-2-furanyl)methylene]amino]-2,4-imidazolidinedione 7321
 - + Tetrahymena pyriformis, predator-prey interaction 3967
 - aminocarbonylthioates 1263 1264
 - antibiotic No. K-73 3803
 - bactericide, industrial water system 1494
 - batch culture 4940
 - N-benzylidenediphenylamine-2-carboxylic acid hydrazide derivatives 10165
 - bicyclic polyoxymethylene-oxazolidines 471
 - epsilon-caprolactam + alkanediamine derivatives 2149
 - epsilon-caprolactam + alkanediamines 2318
 - epsilon-caprolactam +
 - N-alkyl-propylene-diamine reaction products 8102
 - epsilon-caprolactam + N-alkylalkylene diamine reaction product 3126
 - chlorhexidine/iodophor/quaternary ammonium compound/hypochlorite test dip 3922
 - alpha-chloro-o-acylbenzaloxime derivatives,
 - industrial water system 3891
 - continuous culture 4940
 - diacetyl reductase 9382
 - 1,3-dichloroacetone oxime acetate +
 - beta-bromo-beta-nitrostyrene, industrial water system 2320
 - dihalo-sulphonate derivatives 7979
 - disinfectant 6727
 - floculation, bentonite 10535
 - frozen erythrocytes 1293
 - halocyanacetamide + haloacetic ester 1496
 - hydrazino-pyridine derivatives 2139
 - epsilon-N-hydroxylysine 9335
 - meat/hide 4210
 - monocyclic polyoxymethyleneoxazolidine 2090
 - neomycin, Coulter Counter 6595
 - paraldol 3721
- Aerobacter aerogenes*(Contd),
 - penicillanic acid derivatives 606
 - propanediol dehydratase 6914
 - pyrano-indole derivatives 7349
 - sewage, sodium dodecyl sulphate degradation 2555
 - slimicide, industrial water system 3124
 - streptomycin A 5763
 - verdamycin I 562
- Aerobacter cloacae*,
 - acylase, 7-aminocephalosporanic acid derivatives 2207
 - beta-lactam antibiotics resistance,
 - beta-lactamase 6952
 - disinfectant 6727
 - disinfectant resistance 1102
 - slimicide, industrial water system 3124
- Aerobic bacterium*,
 - respiration, electrode monitoring 3953
- Aerococcus*,
 - dried/frozen food 111
- Aeromonas*,
 - cellulase 9368
 - Cheddar cheese 6062
 - dental clinic water 10479
 - drinking water 7497
 - hemicellulase 9368
 - hydrocarbon 7291
 - Indian mackerel, gamma-irradiation 4245
 - lake water, nuclear reactor effluent 4881
 - lead 3658
 - lignin degradation 8459
 - milk 6993
 - milk, proteolysis/lipolysis 142
 - minced meat 6993
 - municipal water 7497
 - phenanthrene degradation 2552
 - vacuum-packaged trout, gamma-irradiation 5258
 - water 6993
 - water, food industry 5795
 - white pomfret, gamma-irradiation 4245
- Aeromonas formicans*,
 - API test system/Enterotube test system/Pathotec test system 10558
- Aeromonas hydrophila*,
 - americium-241, lake water 4882
 - anthracycline antibiotic reduction 1383
 - API test/Oxi-Ferm tube 10543
 - API test system/Enterotube test system/Pathotec test system 10558
 - cefuroxime/cephalothin 10277
 - deoxyribonuclease-indole medium 7541
 - drinking water 10478
 - fish hatchery water, ultraviolet irradiation 1503
 - lake water, nuclear reactor effluent 4881
 - NADH-dependent anthracycline glycoside reductase 6864
 - packaged milk 7049
 - penicillinase 36
- Aeromonas liquefaciens*,
 - benzo-1,2,4-triazines 1225
 - benzotriazine-1,4-dioxide derivatives 2091 2118
 - whole ego, heat resistance, thermal death time pouch 3397
- Aeromonas punctata*,
 - fish hatchery water, ultraviolet irradiation 1503
 - milk 6993
 - minced meat 6993
 - L-serine dehydratase 9434
 - water 6993
- Aeromonas salmonicida*,
 - fish furunculosis, immuno-India ink method 9267
 - fish hatchery water, ultraviolet irradiation 1503

Subject index

Aerosol,

- microbial, environmental pollution 671
- peracetic acid, hospital hygiene 3912

Aesculin hydrolysis,

- Klebsiellae 7564

Aesculus glabra,

- Guignardia aesculi, benomyl 10008

Aesculus hippocastanum,

- Fomes fomentarius, scanning electron microscopy 4537
- Phytophthora 2848

Aflatoxicol,

- aflatoxin B₁ 7814
- food 7058

Aflatoxicosis,

3431

Aflatoxin,

- see also Microbial toxins 3431
- acid-treated corn 2623
- animal feed 3431
- animal mycotoxins 3427
- Aspergillus flavus 3431
- Aspergillus flavus, bread, culture medium 6139
- Aspergillus flavus, corn 983 1804 1805 2622
- Aspergillus flavus, enzymes 5045
- Aspergillus flavus, ground spice 4262
- Aspergillus flavus, groundnut 265
- Aspergillus flavus, gamma-irradiation, food preservation 6121
- Aspergillus flavus, mouldy grain, animal feed 3415
- Aspergillus flavus, peanut 1014 1852
- Aspergillus flavus, pecan 4261
- Aspergillus flavus, pistachio nut 227
- Aspergillus flavus, Sorghum 1854
- Aspergillus flavus, water activity 977
- Aspergillus niger, peanut 1852
- Aspergillus parasiticus 610 2625
- Aspergillus parasiticus, dichlorvos 6131
- Aspergillus parasiticus, enzymes 5045
- Aspergillus parasiticus, 2-mercaptoethanol 4258
- Aspergillus parasiticus, pecan 4261
- Aspergillus parasiticus, water activity 977
- Aspergillus parasiticus, zinc 7811
- cottonseed 1803
- food 228 7431 7055 7809 8467
- Hungarian salami 5261
- Hungarian salami, preservation/packaging 1800
- gamma-irradiated food 3432
- milk 225
- milk product 225
- peanut, Monte Carlo method 2626
- smoked food 2624

Aflatoxin B₁,

226 9691

- aflatoxicol 7818
- Aleppo pine nuts 9709
- animal feed 8554
- antibody 7821
- apiarian substrates 7812
- asbestos filter 781
- Aspergillus flavus 980 4257 6133 9693
- Aspergillus flavus, corn 983
- Aspergillus flavus, fatty acids 9701
- Aspergillus flavus, soybean 979
- Aspergillus flavus, triglycerides 9701
- Aspergillus parasiticus 5266 5267 5268
- Aspergillus parasiticus, soybean 979
- assay, rabbit cornea cell culture 2627
- Bacillus thuringiensis 7819 9700
- bacteriophage 2627
- carbon-13 nuclear magnetic resonance spectroscopy 7054
- cereal, animal feed 4255
- cereal, thin-layer chromatography 3430
- corn 1806 7815 7820 9705
- corn, fermentation 9707

Aflatoxin B₁(Contd),

- corn, thin-layer chromatography 6135
- cottonseed, high performance liquid chromatography 7816
- couscous 4260
- dairy product 224
- degradation, Corynebacterium ruorum/Aspergillus niger/Mucor ambiguous/Trichoderma viride, aflatoxin B₁ 8552
- derivative, liquid column chromatography 232
- Drosophila melanogaster 4263
- egg 6137
- enzyme-linked immunosorbent assay 9695
- food 4259 7058 7060
- food, field desorption mass spectrometry 7810
- grain 7056
- high-performance liquid chromatography 5263 9698
- high-pressure liquid chromatography 9696
- high-pressure liquid chromatography + laser fluorimetry 9697
- human cell culture, cytotide 5260
- Japanese quail egg 6138
- liquid column chromatography 232
- mass spectrometry 7813
- microbial degradation 7063
- milk/dairy product, assay 7059
- mouse 2628
- peanut 982 1807 7060
- peanut meal, animal feed 7062
- peanut, minicolumn chromatography/thin-layer chromatography 3433
- peanut, spectrofluorometry 5274
- phage 1802
- photofluorometry 229
- rat 9710
- rumen microorganisms 4254
- silage 7061
- tetrahydrofurobenzofuran derivatives 9699
- thin-layer chromatography 230 231
- thin-layer chromatography, animal feed, ethoxyquin 6132
- tissue culture 2628
- wheat, fermentation 9707
- wine, reversed-phase high performance liquid chromatography 6134
- xylytol, thin-layer chromatography 8556

Aflatoxin B₂,

9691

- animal feed 8554
- Aspergillus flavus 4257 6133 9693
- Aspergillus flavus, soybean 979
- Aspergillus parasiticus, soybean 979
- carbon-13 nuclear magnetic resonance spectroscopy 7054
- cereal, animal feed 4255
- corn 7815
- corn, fermentation 9707
- cottonseed, high performance liquid chromatography 7816
- couscous 4260
- food 7058 7060
- food, field desorption mass spectrometry 7810
- grain 7056
- high-performance liquid chromatography 5263 9698
- high-pressure liquid chromatography 9696
- high-pressure liquid chromatography + laser fluorimetry 9697
- liquid column chromatography 232
- peanut 1807
- peanut, spectrofluorometry 5274
- thin-layer chromatography 230
- wheat, fermentation 9707
- wine, reversed-phase high performance liquid chromatography 6134
- xylytol, thin-layer chromatography 8556

Subject index

- Aflatoxin B2a,**
 - 9691
 - carbon-13 nuclear magnetic resonance spectroscopy 7054
 - enzyme-linked immunosorbent assay 9695
 - wine, reversed-phase high performance liquid chromatography 6134
- Aflatoxin B3,**
 - carbon-13 nuclear magnetic resonance spectroscopy 7054
- Aflatoxin B1,**
 - carbon-13 nuclear magnetic resonance spectroscopy 7054
- Aflatoxin G1,**
 - 9691
 - animal feed 8554
 - apiarian substrates 7812
 - Aspergillus flavus* 6133
 - Aspergillus flavus*, fatty acids 9701
 - Aspergillus flavus*, soybean 979
 - Aspergillus flavus*, triglycerides 9701
 - Aspergillus parasiticus*, soybean 979
 - carbon-13 nuclear magnetic resonance spectroscopy 7054
 - cereal, animal feed 4255
 - corn 7815
 - corn, fermentation 9707
 - couscous 4260
 - egg 6137
 - enzyme-linked immunosorbent assay 9695
 - food 7058 7060
 - food, field desorption mass spectrometry 7810
 - grain 7056
 - high-performance liquid chromatography 5263 9698
 - high-pressure liquid chromatography 9696
 - high-pressure liquid chromatography + laser fluorimetry 9697
 - human cell culture, cytocide 5260
 - Japanese quail egg 6138
 - peanut 1807
 - peanut, spectrofluorometry 5274
 - thin-layer chromatography 230
 - wheat, fermentation 9707
 - wine, reversed-phase high performance liquid chromatography 6134
 - xylitol, thin-layer chromatography 8556
- Aflatoxin G2,**
 - 9691
 - animal feed 8554
 - Aspergillus flavus* 6133
 - Aspergillus flavus*, soybean 979
 - Aspergillus parasiticus*, soybean 979
 - carbon-13 nuclear magnetic resonance spectroscopy 7054
 - cereal, animal feed 4255
 - corn 7815
 - corn, fermentation 9707
 - couscous 4260
 - food 7058 7060
 - food, field desorption mass spectrometry 7810
 - grain 7056
 - high-performance liquid chromatography 5263 9698
 - high-pressure liquid chromatography 9696
 - high-pressure liquid chromatography + laser fluorimetry 9697
 - human cell culture, cytocide 5260
 - peanut 1807
 - peanut, spectrofluorometry 5274
 - thin-layer chromatography 230
 - wheat, fermentation 9707
 - wine, reversed-phase high performance liquid chromatography 6134
 - xylitol, thin-layer chromatography 8556
- Aflatoxin G2a,**
 - 9691
- Aflatoxin G2a(Contd),**
 - carbon-13 nuclear magnetic resonance spectroscopy 7054
 - food 7058
 - wine, reversed-phase high performance liquid chromatography 6134
- Aflatoxin GM1,**
 - food 7058
- Aflatoxin M1,**
 - 9691
 - cheese 8562
 - corn 1806
 - dairy product 224 9688
 - food 7058
 - mass spectrometry 7813
 - milk 8562 8563 9702
 - milk, cellulose chromatography/thin-layer chromatography 7822
 - milk/dairy product, assay 7059
 - powdered milk 8562
 - silage 7061
 - thin-layer chromatography 230 984
 - yoghurt 8562
- Aflatoxin M2,**
 - 9691
 - food 7058
 - milk 9702
- Aflatoxin P1,**
 - food 7058
- Aflatoxin R0,**
 - aflatoxin B1 degradation, *Corynebacterium rubrum/Aspergillus niger/Mucor ambiguus/Trichoderma viride* 8558
- Aflatoxins,**
 - 4259 6815 7808 8559 9691
 - Aleppo pine nuts 9709
 - animal feed 4259 8561
 - animal tissue 978
 - apiarian substrates 7812
 - Aspergillus flavus* 5264 6133 8555 9692
 - Aspergillus flavus*, coconut-agar medium 5269
 - Aspergillus flavus*, corn, fluorescence 6136
 - Aspergillus flavus*, fatty acids 9701
 - Aspergillus flavus*, kojic acid 5265
 - Aspergillus flavus*, peanut 9708
 - Aspergillus flavus*, silica gel medium 1801
 - Aspergillus flavus*, temperature 7057
 - Aspergillus flavus*, triglycerides 9701
 - Aspergillus parasiticus* 5264
 - Aspergillus parasiticus*, AMP/ATP/ADP 4256
 - Aspergillus parasiticus*, cinnamic aldehyde 10142
 - Aspergillus parasiticus*, cinnamon oil 10142
 - Aspergillus parasiticus*, clove oil 10142
 - Aspergillus parasiticus*, coconut-agar medium 5269
 - Aspergillus parasiticus*, corn, fluorescence 6136
 - Aspergillus parasiticus*, enzyme-linked immunocytochemical method 9694
 - Aspergillus parasiticus*, eugenol 10142
 - Aspergillus parasiticus*, silica gel medium 1801
 - Aspergillus parasiticus*, temperature 7057
 - assay, food/animal feed 5270
 - barley, animal feed 5262
 - broad bean 9703
 - cheese 7817
 - corn 7814 7815 9703 9705
 - corn, ammoniation/assay 9704
 - corn, fermentation 9707
 - corn, minicolumn test 5271
 - corn, thin-layer chromatography 6133
 - corn/wet milled corn products, chromatography 8566
 - cottonseed cake 9703
 - cottonseed, high performance liquid chromatography 7816
 - couscous 4260
 - dry-milled corn products 9706

Subject index

Aflatoxins(Contd),

- enzyme-linked immunosorbent assay 9695
- fenugreek 9703
- food 4259 7058 7060 8561
- high-performance liquid chromatography 5263 9698
- high-pressure liquid chromatography 9696
- lentil 9703
- mass spectrometry 7813
- milk 7817 8562
- milk product 7817 8562
- minicolumn chromatography 2621
- nuts 7060
- papad 2589
- peanut 982 2773 5272 5273 7060 9703
- peanut meal 5273
- peanut meal, animal feed 7062
- peanut meal, formaldehyde + calcium hydroxide 228
- peanut, spectrofluorometry 5274
- pecan, fluorescence 5275
- pistachio nut 5276 5277
- salt meat products 8564
- silage 7061
- soybean food products 8565
- thin-layer chromatography 8557
- wheat, fermentation 9707
- wine, reversed-phase high performance liquid chromatography 6134
- xylitol, thin-layer chromatography 8556

Aflagen,

- Sphaerotheca fuliginea, cucurbit 4491

Afugin,

- hydrogen peroxide, Candida albicans/Trichophyton mentagrophytes/Aspergillus niger 2953

Agallal,

- Fusarium oxysporum, ginger 2007

Agallol 3,

- seed treatment, bottle gourd 8682

Agar,

- see also Medium
- horse blood, fermentation, anaerobic bacteria 3168
- starch casein salt, Streptomyces enumeration 6791
- thiosulphate citrate bile salt sucrose, Vibrio 3156
- violet red bile, coliforms 6770 6771

Agar droplet method,

- bacterial count 3165

Agar overlay method,

- antibiotic sensitivity testing, Pseudomonas aeruginosa/Enterobacteriaceae 4720

Agar-overlay test,

- penicillinase, Staphylococcus aureus 38

Agar plate test,

- Staphylococcus biologically-active products 2417

Agar-stick breaking-radius test,

- wood degradation, fungi 4550

Agaricales,

- fairy ring disease, cyanide 2536

Agaricus,

- ergosterol, structure, proton magnetic resonance spectroscopy 9440

Agaricus bisporus,

- aroma compounds 7029
- Aspergillus fumigatus, Torula thermophila 9602
- compost 1759
- culture, Chaetomium cellulolyticum 1760
- culture, compost 5235
- extract, dough 192
- food 1715 2594
- genetics 3410
- post-harvest decay 6322 6816
- post-harvest storage 7030
- preservation, polypropylene drinking straw, liquid nitrogen 4708

Agaricus bisporus(Contd),

- protein 7776
- Pseudomonas tolaasii, biological control 2025
- tree bark fermentation, animal feed 7488
- Verticillium funnicola, chlorthalonil 2017
- Verticillium malthousei, biological control, Trichoderma viride 3564
- virus disease 248
- virus particles 1613

Agaricus brunnescens,

- 3411

Agaricus campestris,

- agaridoxin 82
- food 1715 3409
- mercury 193
- mushroom 9601
- protein amino acids 5236

Agaricus silvicola,

- mercury 193

Agaridoxin,

- Agaricus campestris 82

Agglomeration,

- wastewater treatment 1492

Agglutination,

- 1552
- slide co-, Streptococcus 1578
- slide, Streptococcus 1577

Agglutination test,

- Mycobacterium 9277
- Staphylococcus aureus protein A 3994

Aggregate,

- microbial, oxygen diffusion coefficient 9248

Aggregation,

- poliovirus, water 4869 4870
- reovirus, water 4869

Agri-mycin,

- Fusarium solani 10247
- Xanthomonas malvacearum, cotton 3595

Agrobacterium,

- high molecular weight closed circular DNA 6937
- lactose medium, Agrobacterium 6781
- polysaccharide, dairy product 6044
- sublimation dehydration preservation 2981
- Agrobacterium radiobacter, agrocin 84 5991
- agrocin 84, Agrobacterium tumefaciens 1404
- biological control, Agrobacterium tumefaciens, peach 2820
- biological control, Agrobacterium tumefaciens, Prunus 5438
- crown gall, octopine/nopaline/bacteriocin 84 3456
- red raspberry 2756

Agrobacterium rubi,

- raspberry 1078

Agrobacterium tumefaciens,

- Agrobacterium radiobacter agrocin 84 1404
- almond, biological control 7219
- apricot, biological control 7219
- bean 6182
- carrot 1917
- Chrysanthemum morifolium, antibacterial agent 1920
- cysteine desulphydrase, L-cysteine 6829
- cytokinin, high-performance liquid chromatography 5992
- glucoside-3-dehydrogenase 4152
- grapevine 9870
- hydroxypalmitoyl lysine 5151
- 3-ketosucrose 5008
- Lycopersicon esculentum, hydrocarbons 5437
- mahaleb cherry 2727
- mazzard cherry 2727
- myrobalan plum 2727
- nyphimycin A1-scopafungin 644
- peach, biological control 7219
- peach, biological control, Agrobacterium radiobacter 2820

Subject index

- Agrobacterium tumefaciens (Contd),**
 plum, biological control 7219
 Prunus, biological control, Agrobacterium radiobacter 5438
 pyridine derivatives 2823
 radish 1942
 raspberry 1078
 soil fungi, cadmium 8018
 topinambur 1917
- Agrocin 84,**
 adenine nucleotide 6-N-phosphoramidate, Agrobacterium radiobacter 5991
 Agrobacterium radiobacter, Agrobacterium tumefaciens 1404
- Agrocybe aegerita,**
 tetrad analysis 10615
- Agromyces ramosus,**
 culture 5472
 soil 5472
- Agropyron intermedium,**
 resistance, Puccinia striiformis 5408
- Agropyron repens,**
 Puccinia persists 7880
- Agropyron scabrum,**
 Urocystis agropyri 4320
 Urocystis tritici 4320
- Agrosan 5W,**
 Operculella padwickii 1100
- Agrosan GN,**
 Rhizobium/Rhizobium + mung bean 3649
 seed dressing, fungi, jute seed 2825
 seed treatment, bottle gourd 8682
 seed treatment, Sclerotium rolfsii, Lentil 4523
- Agrostis,**
 Endogone, phosphorus 8877
 snow mould fungi, fungicide 4485
- Agrostis palustris,**
 Curvularia trifolii 1873
 Pythium, benomyl 4517
 Sclerotium rolfsii 5319
- Agrostis stolonifera,**
 Sclerotinia borealis, fungicide 8795
 Typhula FW, fungicide 8795
- Agrostis tenuis,**
 Curvularia trifolii 1873
- Agroticum,**
 resistance, Septoria tritici 3552
- Air,**
 aseptic food packaging, microflora 738
 bacteria 3094
 bacteria, ionization 7463
 bacteria, operating theatre 731
 bacteria, poultry house 2289
 bacteria, swine house 2289
 bacterial contamination test kit 3937
 bactericide 8206
 Candida 7462
 cattle stable 1519
 cattle stable, bacteria 1519
 cattle stall, bacteria 2290
 disinfection, operating theatre 1509
 filter 670 4889
 fungi 110
 hepatitis B surface antigen, sampling technique 6671
 hospital, hygiene 5805
 housed swine unit, Staphylococcus/Salmonella 1525
 hygiene 3902
 hygiene, containment system, hepatitis virus
 zonal centrifugation 2288
 hygiene, operating theatre 1511 10491
 laminar flow, operating theatre, haemostat, bacteria 4849
 Leptosphaeria nodorum pycnidiospores, wheat 4351
 microbial pollution, high-vacuum steam sterilizer 3735
 microorganisms, removing device 7464
- Air (Contd),**
 microorganisms, sampling device 3936
 ozone/ozone + olefin, phage phiX174 8204 8205
 peracetic acid aerosol, hospital hygiene 3912
 Phoma pycnidiospores, wheat 4351
 pollution, food industry 3840
 pollution indicator, Cladonia stellaris 3841
 pollution, plant disease 7862
 pollution, viruses, wastewater treatment 7484
 room, ultraviolet radiation lamp 8246
 sheep-fold, bacteriology 4847
 sheep stable, bacteria 8207
 sterilisation 2155
 sterilisation, hospital 3733
 sterilisation, ultraviolet radiation 3734
 sulphur dioxide pollution, lichen/Rhytisma acerinum indicator 4985
 ultraviolet disinfection 9229
 viruses, wastewater treatment 696
- Air conditioning system water,**
 antibacterial agent/antifungal agent, epsilon-caprolactam + alkanediamines 2318
 antibacterial agent, quaternary ammonium compounds 2319
- Air evacuation,**
 low-pressure, food preservation 3422
- Air sampler,**
 slit-impact, microorganisms 6570
- Air sampling device,**
 3936
- Air screening device,**
 bacteria 1510
- Aircraft,**
 food, hygiene 6739
 supersonic, fuel, Aspergillus fumigatus 4618
- Aircraft fuel,**
 Aspergillus fumigatus, tank corrosion 7283
 bactericide/fungicide 7288
 fungicide, quaternary ammonium compound 2961
 microorganisms 476
- Aircraft fuel tank,**
 corrosion, Aspergillus fumigatus 7283
- AK-toxin,**
 Alternaria kikuchiana, Japanese pear 3498
- Alanine,**
 Arthrobacter 3230
 Previbacterium 3230
 Candida tropicalis, hydrocarbon 485
 mushroom protein 5230
 Mycobacterium 3230
 Swiss stone pine rhizosphere microorganisms 7229
- D-Alanine,**
 3-fluoro-, antibacterial agent 505
 Corynebacterium fascians 3
 2-deutero-3-fluoro-, antibacterial agent 505 6505
 D-norvalyl-, Escherichia coli 7328
- D-Alanine carboxypeptidase,**
 Bacillus stearothermophilus, penicillin G, 5,5-dimethyl-delta2-thiazoline-4-carboxylic acid 4141
 Bacillus subtilis, penicillin-binding peptide 6835
- D-Alanine carboxypeptidase 1A,**
 Escherichia coli, penicillin 11
- L-Alanine dehydrogenase,**
 Halobacterium cutirubrum 6855
- beta-Alanine transaminase,**
 Bacillus subtilis 9355
- L-Alanyl-L-tryptophan anhydride,**
 Aspergillus chevalieri 8324
- D-Alanyl-meso-2,6-diaminopimelic acid endopeptidase,**
 Streptomyces, Lactobacillus plantarum peptide/glycopeptide 4063

Subject index

- Albizia lebbek,**
Colletotrichum dematium 8595
Colletotrichum aloesporioides 8595
- Albomycin,**
6622
- Alborixin,**
Streptomyces albus, antibacterial agent 4793
5714
- Albugo,**
Evolulus alsinoides 9864
- Albumen,**
egg, Salmonella oranienberg 928
- Albumin,**
bovine, binding, rifamycin SV derivatives 10321
human, binding, rifamycin SV derivatives 10321
serum, cephalixin 8133
serum, cephaloridine 8133
serum, cephalothin 8133
- Alcalase,**
protein hydrolysate, soft beverage 5971
- Alcaligenes,**
activated sludge, non-ionic surfactant degradation 1709
blood culture, antibiotic sensitivity testing 551
columnar denitrification, closed-system salmon aquaculture 4873
dental clinic water 10479
hydrocarbon degradation, sea water 2912
mesquite 822
milk, proteolysis/lipolysis 142
phospholipase C, milk 5208
polysaccharide, dairy product 6044
purine degradation 119
rhizosphere, molybdenum 6415
sea water, alkane 6463 6464 6465
sisomicin 10406
soil, arsenite oxidation 2860
soil, denitrification 7263
soil, petroleum waste 6460
soil, phthalic acid degradation 2057
soil, phthalic acid/isophthalic acid/terephthalic acid 10049
test 1561
wastewater treatment 699
- Alcaligenes bookeri,**
packaged milk 7049
- Alcaligenes daeclalis,**
API test/Oxi Ferm tube 10543
- Alcaligenes denitrificans,**
API test/Oxi Ferm tube 10543
- Alcaligenes epoxilyticus,**
D-tartaric acid 5892
D-tartrate epoxidase, D-tartaric acid 813
- Alcaligenes eutrophus,**
batch culture 3172 3173
catechol 1,2-dioxygenase, 3-methylcatechol 5924
hydrogenase 3284
D-ribulose 1,5-diphosphate carboxylase 3318
RNA, heat treatment 5115 5116
- Alcaligenes faecalis,**
acylase, 7-aminocephalosporanic acid derivatives 2207
antibiotic AV290 alkylated derivatives 1394
antibiotic P-3355 2244
carbon substrate utilization, replicator method 10552
cephamycin-type antibiotic 7399
cinnamyl phenols 532
cysteine desulphhydrase, L-cysteine 6829
enzyme, cephalixin 8136
flocculation, bentonite 10535
penicillin amidase, 6-aminopenicillanic acid 598
penicillin amidase, + penicillin, 6-amino-penicillanic acid 4763
protein 8327
- Alcaligenes faecalis(Contd),**
sewage, arsenite oxidation 2306
sisomicin 4825
- Alcaligenes margaritae,**
D-tartaric acid 5892
D-tartrate epoxidase, D-tartaric acid 813
- Alcaligenes odonans,**
tobramycin resistance 6656
- Alcaligenes paradoxus,**
polyester degradation 7709
- Alcaligenes viscolactis,**
activated sludge, non-ionic surfactant degradation 1709
milk 139
products, milk, gas-liquid chromatography 919
- Alcaligenes viscosus,**
alpha-chloro-o-acylbenzaloxime derivatives, industrial water system 3391
- Alcohol,**
see also under individual types
aliphatic, bactericide 5552
Bacillus stearothermophilus 5143
beer 9509
corn fermentation, aflatoxins 9707
fusel, yeast, alpha-keto acid decarboxylase, alcohol dehydrogenase 6017
iodinated, bactericide 6737
long-chain, antiviral agent 5585
microorganisms, cellulose 5881
molasses fermentation, Saccharomyces cerevisiae, ultrasound 9519
racemic, esterification, Candida cylindracea lipase 8369
Saccharomyces cerevisiae, ultrasound 8308
sugar, antibacterial agent/antifungal agent 5593
wheat fermentation, aflatoxins 9707
yeast 101
- Alcohol dehydrogenase,**
NADPH dependent, Acinetobacter calcoaceticus 6856
Pseudomonas 9354
Rhizopus oryzae 1637
Rhizopus rhizopodiformis 1637
Saccharomyces cerevisiae 1637
Torulopsis candida, glucose/hexadecane 3256
wine yeasts, fusel oil 3358
yeast, fusel alcohols 6017
yeast, immobilisation 9353
- Alcoholic beverage,**
see also under individual types
ethanol, gas chromatography 102
preservation 9507
- Alcoholic fermentation,**
Saccharomyces cerevisiae, Vacuform process 9502
- Aldehyde,**
Fusarium nivale, wheat 9962
Septoria nodorum, wheat 9962
- Aldehyde dehydrogenase inhibitor,**
coprine, Coprinus atramentarius 6830
- Alder,**
nitrogen fixation 2877
red, Phellinus weirii 7232
soil, macronutrients, litter microorganisms 7994
- Aldicarb,**
Rhizoctonia solani, sugarbeet 9895
sugarbeet yellows virus, sugarbeet 365
Trichodorus, tobacco rattle virus, potato 7928
- Alditol,**
oxidation, Acetobacter suboxydans, L-dendroketose 8403
oxidation, immobilised Acetobacter suboxydans 5883
- Aldopentose reductase,**
Corynebacterium, L-arabitol/ribitol 2448

Subject index

- aldose diethyl dithioacetal,
oxidation, immobilised Acetobacter suboxydans
5883
- aldrin,
degradation, soil bacteria, exo-dieldrin
10074
- alexidine dihydrofluoride,
dental plaque/dental calculus/dental
caries/gingivitis 1533
- alfalfa,
+ Rhizobium 4581
+ Rhizobium meliloti 4585
+ Rhizobium meliloti, nitrogen fixation
10064
+ Rhizobium meliloti, nitrogen fixation, soil
pH 10065
+ Rhizobium meliloti, nodulation, nitrogen
fixation, ammonium nitrate fertilizer 5490
+ Rhizobium meliloti, nodule, electron
microscopy 6442
+ Rhizobium, nitrogen fixation 5488 5489
+ Rhizobium, nodulation, polygalacturonase
3648
alfalfa mosaic virus 255 1005 1840 8599 8600
Alternaria brassicae 2668
Colletotrichum trifolii 6175
Corynebacterium insidiosum, fluorescent
microscopy 6773
crown rot 3458
degradation, soil microorganisms,
fungicide/bactericide/microbiocide 8927
fungal crown rot 7108
fungal post-harvest decay 8747
Fusarium 9751
Fusarium roseum 6174
Leptosphaerulina brassicae 1006 2393 9751
Leptotrichia medicaginis 2669
Leveillula 4297
microbial disease 256
Myrothecium verrucaria 6189
Peronospora trifoliorum 9751 9752
Phoma medicaginis 8601 9751
Phytophthora megasperma 5300
Phytophthora megasperma, Rhizobium meliloti
5301
Phytophthora megasperma, soil 8884
Pseudopeziza medicaginis 6176 9751
resistance, Colletotrichum trifolii 9925
resistance, fungal crown rot 7108
resistance, Phytophthora megasperma 1977
resistance, Stemphylium botryosum 2779 2780
resistance testing, Colletotrichum trifolii
6328
root rot 3458
Sclerotinia trifoliorum 8601
Stemphylium botryosum 6176 9751
Verticillium albo-atrum 1841 9753
whey, Rhodotorula protein 6839
whey, Saccharomyces protein 6839
- alfalfa looper,
nuclear polyhedrosis virus, Spodoptera
frugiperda cell culture 4010
Trichoplusia ni cell culture 4011
- alfalfa mosaic virus,
alfalfa 255 1005 1840 8599 8600
cocklebur 2762
eggplant 9863
Nicotiana rustica, heat treatment 1995
Primula obconica 5290
Tillman white clover 8607
tomato 5393
Urospermum picroides 338
watermelon 2762
- algae,
marine, extracts, antiviral agent 8993
- alginate,
Alginovibrio aquatilis 8350
- alginate,
assay, Azotobacter vinelandii phage alginate
depolymerase 3257
- Alginate(Contd),
Azotobacter vinelandii 5983
Pseudomonas aeruginosa 5983
- Alginate depolymerase,
Azotobacter vinelandii phage, alginate assay
3257
- Alginate swab sampling,
chicken carcass 1745
- Alginovibrio aquatilis,
alginate 8350
- Alhagi persarum,
rhizosphere/root, mycoflora 2865
- Alkaloid,
AM-2282, Streptomyces staurosporeus,
antifungal agent 9465
Aspergillus fumigatus 6815
Claviceps, 5-fluor-D,L-tryptophan 5576
Claviceps, 5-fluoroindole 5576
Elymus 7677
ergot, assay, fluorodensitometry 7678
ergot, Claviceps 9467
ergot, Claviceps purpurea 5126
ergotamine, proline 8421
funoi 4128
microbial degradation 3363
oxaline, Penicillium oxalicum, C13 nuclear
magnetic resonance spectroscopy 5127
Penicillium concavo-rugulosum 5125
Penicillium roqueforti, blue cheese 526
olant, Trichoderma lignorum 6508
quinoline-2-methanol acetate, Kitasatoa
griseophaeus 5128
quinoline-2-methanol, Kitasatoa griseophaeus
5128
steroid, dehydrogenation, Nocardia restrictus
9439
Thalictrum rugosum, antibacterial
agent/antifungal agent 2144
thiophosphamide derivatives, influenza virus
5591
- Alkane,
see also Paraffin
Acinetobacter calcoaceticus, reducedoxin 2447
Bacillusadius, vitamin B12 6467
Candida albicans, tricarboxylic acid cycle
enzymes 5914
Candida boidinii, fatty acid 5906
Candida guilliermondii 10101
Candida lipolytica, acetyl-CoA carboxylase
4061
Candida lipolytica, lipids 10102
Candida parapsilosis 4914
Candida tropicalis, D-amino acid oxidase
5917
Candida tropicalis, catalase 3521
Candida tropicalis, fatty acid 5906
Candida tropicalis, food/animal feed 4129
Candida tropicalis, lipids 10102
Candida tropicalis, vesicles 8742
Candida utilis, fatty acid 5905
Cladosporium resinae 5520
degradation, Mucorales 10105 10106
degradation, soil microorganisms 10108
microbial protein, animal feed 1619 1766
Micrococcus 10098
Micrococcus freudenreichii 10098
oxidation, Candida tropicalis, catalase 8941
oxidation, Pseudomonas aeruginosa,
protein-like activator 10099
Pichia guilliermondii 4914
Pseudomonas denitrificans, gelatin
proteolysis 10100
Pseudomonas NAD-dependent alkane
dehydrogenase 6857
Pseudomonas NAD phosphate-dependent alkane
hydroxylase 6857
Saccharomyces cerevisiae, fatty acid 5906
sea water, Alcaligenes 6463 6464 6465

Subject index

- Alkane(Contd),**
supersonic aircraft fuel, *Aspergillus fumigatus* 4618
Torulopsis tombicola, dicarboxylic acid 7292
yeast, cell wall polysaccharide, calf feed 6097
yeasts 484
- Alkane dehydrogenase,**
NAD-dependent, *Pseudomonas*, alkane 6857
- Alkane hydroxylase,**
NAD phosphate-dependent, *Pseudomonas*, alkane 6857
- Alkanediamine,**
derivatives, + epsilon-caprolactam, antibacterial agent/antifungal agent, water systems 2318
derivatives, + epsilon-caprolactam, antifungal agent/antibacterial agent 2149
- alpha-omega-Alkanedicarboxylic acid,**
antifungal agent 1231
dimethyl esters, antifungal agent 1231
- Alkyl benzenesulphonate,**
Azotobacter, soil 6416
microbial degradation 4166
- N-Alkyl-propylene-diamine,**
+ epsilon-caprolactam, reaction products, antibacterial agent/antifungal agent 8102
- N-Alkylalkylene diamine,**
+ epsilon-caprolactam reaction product, antibacterial agent/antifungal agent, industrial water system 3126
- Alkylbenzene sulphonate,**
degradation, *Bacillus* 899 4167
degradation, *Pseudomonas* 899
degradation, *Serratia* 899
- Alkylsulphate,**
detergent, degradation, *Comamonas terrigena* alkylsulphohydrolase 6979
detergent, degradation, *Pseudomonas* alkylsulphohydrolase 6979
- Alkylsulphohydrolase,**
Comamonas terrigena, alkylsulphate detergent degradation 6979
Pseudomonas, alkylsulphate detergent degradation 6979
- L-5-Alkylthiomethylhydantoin-S-oxide,**
antibacterial agent 5556
- Alkyltin cyclopropyl,**
derivatives, bactericide/fungicide 1260
- Alkyltrimethylammonium bromide,**
bactericide 10164
- Allamanda cathartica,**
Colletotrichum gloeosporioides 5364
- Allantoinase,**
inhibitor, urease, *Pseudomonas aeruginosa* 4064
Mycobacterium 4957
- Allescheria terrestris,**
enzymes 9350
- Allethrin,**
Fusarium graminearum, zearalenone 2636
- Alliaria officinalis,**
turnip mosaic virus 308
- Allicin,**
antifungal agent 7332
- Allison,**
Penicillium expansum, apple post-harvest decay 8749
- Allium cepa,**
Alternaria cepulicola 2752
Alternaria cepulicola, fungicide 4492
Botrytis allii, fungicide 6360
Botrytis allii post-harvest decay 4439
Botrytis cinerea 6278
Botrytis cinerea, fungicide 6360
Botrytis cinerea, phyllosphere bacteria 5382
Botrytis squamosa 6278 6279 7157
Botrytis squamosa, fungicide 6360
Botrytis squamosa, phyllosphere bacteria 5382
- Allium cepa(Contd),**
bulbs, post-harvest decay 2770
carlavirus 6248
Fusarium oxysporum 6280
Fusarium solani post-harvest decay 8755
gamma-irradiation, aflatoxin 3432
meristem, bleomycin 5123
Peronospora destructor 4291 9877
Peronospora destructor,
N-tetrachloroethyl-thio-4-cyclohexene-1,2-di-carboximide 8709
post-harvest decay, *Pseudomonas aeruginosa* 350
potyvirus 6248
rhizosphere fungi, benomyl 7975
rhizosphere fungi, captan 7975
Sclerotium cepivorum 4399
Sclerotium cepivorum, fungicide 7974
Sclerotium cepivorum, fungicide seed treatment 7991
seed, *Aspergillus flavus* 1838
vesicular-arbuscular mycorrhiza, benomyl 7975
vesicular-arbuscular mycorrhiza, captan 7975
- Allium porrum,**
Alternaria porri 8706
Sclerotinia porri 7920
- Allium sativum,**
antibacterial agent 10143
carlavirus 6248
Cladosporium echinulatum 6268
extract, fungicide/fungistat 10169
oil, antifungal agent, plant protection 388
potyvirus 6248
rhizosphere microorganisms, root treatment 8871
- Allomyces,**
plant disease 2658
- Allomyces arbuscula,**
culture medium 3198
- Allomyces macrognus,**
culture medium 3198
- Allophylus cobbii,**
Cercospora allophylorum 998
- Allyl caproate,**
barley grain preservation, *Aspergillus candidus*, pig feed 9908
fungi, wheat seed 407
- Allyl isothiocyanate,**
cabbage, resistance, *Peronospora parasitica* 2787
- 1-[beta-(Allyloxy)-2,4-dichlorophenethyl]-imide zole,**
Geotrichum candidum, lemon post-harvest decay 3541
Penicillium digitatum, citrus post-harvest decay 3541 3541
- Almond,**
aflatoxins 7060
Agrobacterium tumefaciens, biological control 401 7219
Fusicoccum amygdali, fusicoccin 3492
leaf scorch bacteria 9822
Polystigma ochraceum 9823
Tranzschelia pruni-spinosae 9820
- Alnetum,**
soil, macronutrients, litter microorganisms 7994
- Alnus rubra,**
Phellinus weirii 7232
- Alnus tenuifolia,**
nitrogen fixation 2877
- Alocasia macrorrhiza,**
virus diseases 8674
- Aloe vera,**
Colletotrichum gloeosporioides 1837
Fusarium solani 1837
Pestalotiopsis versicolor 1837
Phoma sorghina 1837
Phomopsis aloes-percrassae 1837

Subject index

- Lopecurus myosuroides*,**
Claviceps purpurea 288
- Opuntia officinarum*,**
 antibacterial agent/antifungal agent 6523
 flavonoid, antibacterial agent/antifungal agent 7348
- Ornithoglossum* A,**
Actinomyces pneumoniae 4792,
- Ornithoglossum* B,**
Actinomyces pneumoniae 4792
- Alternaria*,**
 2-amidocarbonylthiobarbituric acids 2027
 alternariol monomethyl ether, alternariol, pecan nut 6956
 apple post-harvest decay, phenolic compounds 343
 barley seed, beer 7697
 bean seed 4301
 bhendi 1909
 biological control, *Alternaria alternata*, tobacco 5416
 blueberry post-harvest decay 2764 5398
 chrysanthemum 4379
 cinnamyl phenols 532
 corn 9786
 cotton seed 2737
 cowpea seed 1848
 Egyptian clover 9762
 fungicide 2053
 Ipomoea sepiaria 1909
 latex paint film, surface disinfection 1C092
 melanin 9471
 milk 920
 paint film degradation 4176
 paint film degradation, enzymes 4177
 Pasteurella greuteriae, phalsa 1073
 poultry feed, gentian violet 956
 safflower, seed treatment fungicide 8838
 sesame phylloplane 1949
 soybean 9596
 soybean seed 4310
 stored rapeseed 6326
 strawberry post-harvest decay, fungicide 8760
 sugarbeet, fungicide seed treatment 2034
 sunflower 9943
 tomato, oxadiazolidine-3,5-dione derivatives 1115
 tomato, resistance 9946
 wheat, fungicide 2005
 willow 10018
- Alternaria alternata*,**
Albizia labbeck 2661
 bean 9755
 caranda 1044
 Cotoneaster acuminata 7147
 Crataeva religiosa 4532
 fenugreek seed 1017
 fungal oospore parasite, soil 8881
 guanidine derivatives 8041
 Kadota fig post-harvest decay, fungicide 9914
 Kalanchoe pinnata, *Albizia labbeck* 2661
 large cardamon 4224
 lodgepole pine dwarf mistletoe 4543
 malabar nut tree 1837
 neem tree 3615
 Ocimum sanctum 2751
 Plumeria acutifolia 1937
 post-harvest decay/vegetable post-harvest decay, hypobaric pressure 7183
 stored rapeseed 6326
 strawberry, phenolic compounds 1952
 Strelitzia reginae 6170
 tentoxin, plants, resistance 9721
 tobacco, biological control 5416
 tobacco, biological control, *Bacillus cereus* 9955
 Vitex negundo 1837
 wheat 1888
- Alternaria alternata* (Contd),**
 wheat grain 9804
 wheat post-harvest decay 342
 wood 7242
- Alternaria bataticola*,**
 Gloeophyllum sepiarium oospolactone 2538
- Alternaria brassicae*,**
 alfalfa 2668
 plant disease 2656
 rapeseed 4412
 rapeseed, resistance 4412
- Alternaria brassicicola*,**
 Brussels sprout 9853
 Brussels sprout, resistance 9853
- Alternaria calendulae*,**
 marigold 8706
- Alternaria carthami*,**
 safflower 6295
- Alternaria cepulicola*,**
 onion 2752
 onion, fungicide 4492
- Alternaria citri*,**
 avocado post-harvest decay 9909
 pyridine derivatives 2823
 satsuma mandarin post-harvest decay, fungicide DF-125 5400
 tangerine 303
- Alternaria cucumerina*,**
 spore leachates, zineb 1106
 squash, fungicide 382
 watermelon 1964
- Alternaria cyamopsidis*,**
 cluster bean 2672
- Alternaria dauci*,**
 carrot 9855
- Alternaria eichhorniae*,**
 toxin, water hyacinth 7823
- Alternaria helianthi*,**
 sunflower 6299
- Alternaria humicola*,**
 pigeon pea rhizosphere 6422
- Alternaria infectoria*,**
 betel 1912
- Alternaria japonica*,**
 Gloeophyllum sepiarium oospolactone 2538
- Alternaria kikuchiana*,**
 AK-toxin, Japanese pear 3498
 amipurimycin 9124
 antibiotic OS-1804 10345
 conductive staining, scanning electron microscopy 761
 isothiocyanate derivatives 3722
 phosphoryl phenyldiamine derivatives 1118
 plant disease, fungicide 7222
- Alternaria lenticola*,**
 flax 9865
- Alternaria macrospora*,**
 passionfruit 8711
- Alternaria mali*,**
 carbamate derivatives 511
 Kuntan smoke 8988
 phosphoryl phenyldiamine derivatives 1118
 plant disease, fungicide 7222
- Alternaria maritima*,**
 Gloeophyllum sepiarium oospolactone 2538
- Alternaria oleracea*,**
 triazine derivatives, plant protection 8821
- Alternaria oryzae*,**
 rice seed 1280
- Alternaria porri*,**
 leek 8706
 3,4,5-trihydroxy-7-methoxy-2-methylanthraquinone 9472
- Alternaria solani*,**
 carbamate derivatives 510
 cellulase, plant growth regulator 3697
 chlorodicyano benzene organosulphur derivatives, plant protection 5595
 dinitrothiophene derivatives 7987
 bis(diphenylaminomethane) derivatives 1265

Subject index

- Alternaria solani(Contd),**
 ethephon + fungicides, tomato 8805
 Eucalyptis leaf extracts 10166
 formamide derivatives, plant protection 7336
 Gloeophyllum sepiarium oospolactone 2538
 Parthenium hysterophorus extract 2932
 N-phenyl maleic imide derivatives 393
 potato, fungicide 5418
 potato, fungicide + sprinkler irrigation system 7970
 rhizopin 1438
 thiadiazolo-benzimidazole derivatives 8081
 thiazolidinone derivatives 2959
 thiocyanate derivatives 5569
 tomato 8740
 tomato, furan-3-carboxamide derivatives 1112
 tomato, phthalimide derivatives 2815
 tomato, plant protection 5392
 tomato post-harvest decay 5392
 tomato, resistance 8780
 triazine derivatives, plant protection 8821
 tridemorph 5417
- Alternaria tenuis,**
 Alternaria trititica, wheat, isolation medium 1040
 benzisothiazolin-3-one derivatives 534
 benzisothiazolinone + quaternary ammonium compound 4687
 cellulase, plant growth regulator 3697
 chalcone 7347
 clothes 110
 Dactylium dendroides antibiotic 2237
 diallyl-disulphide 388
 Diplocladium elegans antibiotic 2237
 ethephon + fungicides, tomato 8805
 flavone 7347
 fungicide, paint 7345
 garlic oil 388
 jute seed, seed dressing fungicide 2825
 naphthaquinones 5430
 Parthenium hysterophorus extract 2932
 pear 9842
 plant extracts, plant protection 9956
 potato, rishitin/lyubimin 4495
 soil, Pg pigment 7259
 spores, plant leaves 7106
 sunflower seed 1957
 wheat 1039 6233
 wheat, biological control, soil microflora 371
 yam 2763
- Alternaria tenuissima,**
 snakegourd 4415
- Alternaria tomato,**
 alphabeta-dehydrocurvularin 4139
 beta-hydroxycurvularin 4139
- Alternaria tritici,**
 rhizopin 1438
- Alternaria trititica,**
 barley 6204
 wheat 1038 1889 2711 8651
 wheat, fungicide 1102
 wheat, isolation medium 1040
 wheat, resistance 7950
- Alternaria zinniae,**
 sunflower seed 1957
 Zinnia seed 341
- Alternaric acid,**
 yeasts 2170
- Alternariol,**
 Alternaria, pecan nut 6956
- Alternariol monomethyl ether,**
 Alternaria, pecan nut 6956
- Alteromonas luteo-violaceus,**
 antibiotic 3055
- Alteromonas putrefaciens,**
 chicken leg muscle spoilage 8506
 poultry carcass 2578
- Alteromonas rubra,**
 antibiotic 3796
- Alteromonas rubra(Contd),**
 pigment 3796
- Althaea rosea,**
 hollyhock yellow mosaic virus 1063
- Alum,**
 activated sludge waste treatment 10439
- Aluminium,**
 n-oxyppyridyl thiol-, antibacterial agent/antifungal agent 749
- Aluminium alloy,**
 aircraft fuel tank, corrosion, Aspergillus fumigatus 7283
- Aluminium foil,**
 watermelon mosaic virus, marrow 6346 7984
- Aluminium sulphate,**
 sedimentation, Beauveria bassiana conidia 5158
- Alveolysin,**
 Bacillus alvei 9726
- Alvison-8,**
 microbial degradation 2897
- Alyssum saxatile,**
 cabbage black ring virus 8676
- AM-2282,**
 Streptomyces staurosporeus, antifungal agent 9466
- Amanita citrina,**
 pine mycorrhiza, trifluralin 7227
- Amanita muscaria,**
 mycorrhiza, white birch 5444
 pine, Phytophthora cinnamomi 8850
 radiate pine, seed dressing fungicide 6382
- Amanita ocreata,**
 alpha-amatoxin 7824
 beta-amatoxin 7824
- Amanita phalloides,**
 alpha-amanitin assay, thin-layer chromatography 7064
 beta-amanitin assay, thin-layer chromatography 7064
 gamma-amanitin assay, thin-layer chromatography 7064
 amanitin, charcoal perfusion 4264
 beta-amanitin, structure 6141
 amanitins, spectrometry 6140
- Amanitin,**
 charcoal perfusion 4264
- alpha-Amanitin,**
 Amanita phalloides, assay, thin-layer chromatography 7064
 Amanita phalloides, spectrometry 6140
 Galerina autumnalis 5278
- beta-Amanitin,**
 Amanita phalloides, assay, thin-layer chromatography 7064
 Amanita phalloides, spectrometry 6140
 Amanita phalloides, structure 6141
 alpha-amanitin 5278
- gamma-Amanitin,**
 Amanita phalloides, assay, thin-layer chromatography 7064
 Amanita phalloides, spectrometry 6140
- Amanitadine,**
 see also Adamantane derivatives, arenavirus 2122
 influenza virus 4674
 resistance, influenza virus, genetic marker 10115
- Amaranthus deflexus,**
 Amaranthus leaf mottle virus 9848
- Amaranthus gangeticus,**
 seed, Aspergillus flavus 1838
- Amaranthus leaf mottle virus,**
 Amaranthus deflexus 9848
- Amaranthus spinosus,**
 + Spirillum, nitrogen fixation 5501
- Amaranthus viridis,**
 Colletotrichum 1909
 pigweed mosaic virus 4371

Subject index

- Amatoxin,**
 beta-amanitin, *Amanita phalloides*, structure 6141
 amanitins, *Amanita phalloides*, spectrometry 6140
- alpha-Amatoxin,**
 Amanita ocreata 7824
- beta-Amatoxin,**
 Amanita ocreata 7824
- Ambistryn-S,**
 curd rot, cauliflower 402
- Ambodryl,**
 antibacterial agent 2938
- Ambruticin,**
 Polyangium cellulosum, antifungal agent/antibacterial agent 10351
- American foul brood,**
 Bacillus larvae, honeycomb, ethylene oxide sterilisation 6537
- American foulbrood disease,**
 apiary sterilisation, ethylene oxide 2980
 Bacillus larvae, apiary, ethylene oxide sterilisation 3738
 Bacillus larvae, honeycomb, biological control, *Penicillium waksmani* 1212
- Americium-241,**
 lake water, *Aeromonas hydrophila* 4882
- Amethocaine,**
 antibacterial agent 6495
- Aethopterin,**
 mutagen, *Streptococcus faecium* 10144
- Amidine,**
 derivatives, fungicide/bactericide, plant protection 7224
- Amidoxal,**
 Enterobacter aerogenes 1214
 Escherichia coli 1214
 Klebsiella pneumoniae 1214
 Proteus mirabilis 1214
 Pseudomonas aeruginosa 1214
 Staphylococcus aureus 1214
 Streptococcus faecalis 1214
- Amikacin,**
 9501 10258
 + antibiotics 4794
 + carbenicillin, *Serratia marcescens* 4743
 + cefazolin, *Klebsiella* 3756
 + cephradine, antibacterial agent 6555
 + cephalothin, *Klebsiella* 4723
 + chloramphenicol, *Klebsiella* 4723
 + beta-lactam antibiotic, antibacterial agent 7382
 antibacterial agent 2189 2969 3755 3758 4631 4741 4826 5750 7384 7385 7427 8113 8130 9032 10260
 assay, *Staphylococcus aminoglycoside* 4-adenylyltransferase 2183
 carbenicillin 1297
 Enterobacteriaceae 2184 2185
 iodine-125 radioimmunoassay 5715
 Klebsiella 4723
 Listeria monocytogenes 5629
 Mycobacterium 7388
 Mycobacterium fortuitum 10131
 phosphorylation, *Staphylococcus aureus* aminoglycoside phosphotransferase 6859
 Propionibacterium *acnes* 5630
 Proteus rettgeri 1201
 Pseudomonas aeruginosa 564 1321 2184 2185
 Pseudomonas aeruginosa, antibiotic sensitivity testing 8116
 resistance, *Staphylococcus aureus* 1207 4644
 resistance, *Staphylococcus epidermidis*, tobramycin adenylyltransferase 6491
 sensitivity testing, *Pseudomonas aeruginosa*, culture medium 6549
 Serratia marcescens 4743
 Staphylococcus aureus 1207
 ticarcillin 1297
 Yersinia enterocolitica 6551
- Amine,**
 degradation, yeasts 4168
 long chain aliphatic, *Streptococcus faecalis* 3693
- Amine oxide,**
 derivatives, antibacterial agent/antifungal agent 10196
- Aminocarbotriithioate,**
 derivatives, antibacterial agent/antifungal agent 1263 1264
- Aminimide,**
 derivatives, antibacterial agent/antifungal agent 10197
- N-(2-Amino-1,2-dicyanoethylenyl)-beta-D-glucopyranosylamine,**
 diaminomaleonitrile degradation 3365
- 7-O-(2-Amino-2-deoxy-alpha-D-glucopyranosyl)-L-glycero-D-manno-heptose,**
 Erdetella pertussis endotoxin 7849
- 2-Amino-2-deoxyguanosine,**
 Enterobacter 6623
 Enterobacter cloacae 9125
- 2-Amino-6-methyl pyrimidine,**
 broadbena mosaic virus, broad bean 3591
- 2-Amino-5-bromo-6-methyl-4-pyrimidinol,**
 interferon, antiviral agent 8999
- D-2-Amino-5-phosphono-3-pentenoic acid,**
 Streptomyces plumbus 5026
- Amino acid,**
 Absidia corymbifera 1622
 antibacterial agent, *Pseudomonas*, plant protection 3457
 bactericide, antiseptic 3137
 Candida tropicalis, hydrocarbon 485
 Hyphomicrobium variabile 9344
 lactic acid bacteria, wine 106
 Lactobacillus protein 6837
 Macrophomina phaseoli, mercury/captan tolerance 2922
 microbial, adsorption, ion exchange resin 7600
 microbial, hydrocarbon 3662
 microbial, semitatch culture 816
 microbial, zero gravity 4031
 Micrococcus polymorphism 9344
 mushroom protein 5236
 penicillopepsin, *Penicillium janthinellum* 2489 2490 2491 2492
 Pseudomonas methylotropha 9344
 Pseudomonas rosea 9344
 Rhizopus oligosporus 1622
 Rhizopus rhizopodiformis 1622
 rumen bacteria 5025
 Saccharomyces cerevisiae peptidyl factor 9338
 soil bacteria, phosphate dissolution 8874
 Swiss stone pine rhizosphere microorganisms 7229
- omega-Amino acid,**
 microbial, auto-analyser 7599
- Amino acid decarboxylase,**
 Erwinia 12
 Micrococcus peritremus/Micrococcus conglomatus, aromatic ethylamines 13
- D-Amino acid oxidase,**
 Aspergillus niger 5047
 Candida tropicalis 5917
 mitochondrial, *Neurospora crassa* 5048
- omega-Amino acid-pyruvate aminotransferase,**
 Pseudomonas 3251
- omega-Amino acid transaminase,**
 Bacillus subtilis 9355
- Amino acids,**
 Arthrobacter 3230
 bacteria 5895
 Brevibacterium 3230
 microbial 9501
 Mycobacterium 3230
 Streptococcus thermophilus, milk 9545

Subject index

- 2-Amino-s-triazino[1,2-a]-benzimidazole,**
Phytophthora infestans 6515
Puccinia triticina 6515
- omega-Aminoacyl-4-aminobenzoic acid,**
 derivatives, *Staphylococcus aureus* 10153
- Aminoacylase,**
Aspergillus ochraceus, immobilisation 6858
 microbial 9501
 microbial, immobilized 3248
- Aminoadamantane,**
 derivatives, antiviral agent 4679
- Aminobenzoic acid,**
 derivatives, *Staphylococcus aureus* 10153
- p-Aminobenzoic acid,**
 antibiotics 2991
 intestinal bacterial overgrowth 3960
Pseudomonas desmolticum, soil 431
- 2-Aminobutane,**
Penicillium digitatum, citrus post-harvest decay 4441
Penicillium italicum, citrus post-harvest decay 4441
- gamma-Aminobutyric acid transaminase,**
Bacillus subtilis 9355
- alpha-Aminocarboxylic amide,**
 derivatives, *Mycobacterium tuberculosis* 8060
- Aminocephalosporanic acid,**
 see Cephalosporanic acid, amino-
- Aminocyclitol-aminoglycoside antibiotic,**
 mass spectrometry 560
- Aminocyclitol antibiotics,**
 2171
- Aminocyclitol gentamicin analogue,**
Micromonospora purpurea, antibacterial agent 6599
- 4-Aminocyclohexanecarboxylic acid,**
 derivatives, *Staphylococcus aureus* 10153
- Aminoglycoside,**
 2-deoxystreptamine-, derivatives,
 antibacterial agent 6559 6560
- Aminoglycoside 2-adenylyltransferase,**
Escherichia coli, aminoglycoside antibiotics assay 2183
- Aminoglycoside 3'-phosphotransferase,**
Bacillus circulans, butirosin 10457
Escherichia coli 14 6483
Staphylococcus aureus 6860
Staphylococcus epidermidis 6860
- Aminoglycoside 4-adenylyltransferase,**
Staphylococcus, aminoglycoside antibiotics assay 2183
- Aminoglycoside 6-N-acetyltransferase,**
Staphylococcus aureus, gentamicin resistance 5538
- Aminoglycoside acetyltransferase,**
Staphylococcus aureus, gentamicin resistance 10125
- Aminoglycoside antibiotic,**
 2182
 66-40 C, *Micromonospora inhybensis* 10336
 + ampicillin, antibacterial agent 5671
 aminocyclitol-, mass spectrometry 560
 antibacterial agent 561
 antibacterial agent/resistance 1302
 bacteria, resistance 2104
 dehydroxylation 6561
 garamine derivatives 612 616
 melanin 1303
Pseudomonas aeruginosa 1206 1321
 R factor, *Staphylococcus aureus*,
 aminoglycoside antibiotic
 nucleotidyltransferase 490
 resistance, bacteria 1198
 resistance, *Staphylococcus aureus* 1207
Staphylococcus aureus 1207
Streptococcus faecalis 3003
- Aminoglycoside antibiotic nucleotidyltransferase,**
Staphylococcus aureus, aminoglycoside antibiotic resistance 490
- Aminoglycoside antibiotics,**
 + cephradine, antibacterial agent 6555
 antibacterial agent 563 3755 4626 9032 10254 10255 10256
 assay, *Staphylococcus* aminoglycoside
 4-adenylyltransferase/*Escherichia coli*
 aminoglycoside 2-adenylyltransferase 2183
 bacteria 10257
 Enterobacteriaceae 6565
Escherichia coli, salt antagonism 4742
 polyanionic detergents 8128
Pseudomonas aeruginosa, salt antagonism 4742
 resistance, bacteria 3755
 resistance, *Escherichia coli*, aminoglycoside
 3-phosphotransferase II 6483
 resistance, *Escherichia coli*,
 aminoglycoside-phosphotransferase 8351
 resistance, *Staphylococcus epidermidis*,
 tobramycin adenylyltransferase 6491
 sensitivity testing, Enterobacteriaceae 10259
- Aminoglycoside-phosphotransferase,**
Escherichia coli 8351
Staphylococcus aureus, amikacin
 phosphorylation 6859
Staphylococcus aureus, gentamicin resistance 10125
- beta-Aminoketone,**
 derivatives, antibacterial agent 2108
- delta-Aminolaevulinic acid,**
Chromatium vinosum, porphobilinogen 5154
Chromatium vinosum, uroporphyrin III 5154
- alpha-Aminolauropenone,**
 derivatives, fungicide 5571
 fungicide 5571
- Aminomethylenemalononitrile,**
 derivatives, fungicide, plant protection 3578
- 7-Aminomitosane-9a-sodium sulphonate,**
 mitomycin C 3812
- Aminonucleoside antibiotic,**
 2-amino-2-deoxyguanosine, *Enterobacter* 6623
- alpha-Aminooxycarboxylic acid,**
 derivatives, antimycobacterial agent 8058 8059
- Aminopeptidase,**
Aspergillus flavus 2449 8352
Aspergillus japonica 4065
Aspergillus oryzae 8352
- Aminopeptidase II,**
Escherichia coli 1638
- 4-(p-Aminophenyl) thiazole,**
 derivatives, *Mycobacterium tuberculosis* 493
- (4-Aminophenyl) thiazole,**
 derivatives, + indole derivatives, Schiff
 bases, antituberculous agent/antifungal
 agent 8969
- p-Aminosalicic acid,**
 derivatives, *Mycobacterium tuberculosis* 4650
Mycobacterium farcinicum 4648
Mycobacterium phlei 4648
Mycobacterium smegmatis 4648
Mycobacterium tuberculosis 4648
- Antinotransferase,**
Bacillus subtilis 1450
Pseudomonadaceae, L-aspartic acid 4037
- 2-Aminotridecane,**
 derivatives, antifungal agent 3702
- Amipurimycin,**
Streptomyces novoguineensis, antifungal agent 9124 9125
- Amitoxin,**
 influenza virus 5591
- Amirole,**
 degradation, soil bacteria 7281
 mycorrhizal fungi 8917
- Amni majus,**
 celery mosaic virus 3499
- Amni visnaga,**
 celery mosaic virus 3499

Subject index

- Ammodendron conollyi**,
rhizosphere/root, mycoflora 2865
- Ammonia**,
automatic disinfection cabinet, anaesthesia
equipment/respiratory equipment 4896
barley grain preservation 1797
corn, *Scopulariopsis brevicaulis* 2769
dried potato pulp preservation 4233
virucide, wastewater sludge, poliovirus
10459
wheat grain preservation 1797
- Ammoniation**,
aflatoxins, corn 9704
- Ammonification**,
forest soil, caddylic acid 7265
forest soil, monosodium methanearsonate 7265
nitrification 440
soil 439 440
soil, Nuvocron/Supracids 2895
- Ammonium fertilizer**,
soil, nitrification 6435
- Ammonium fixation**,
soil 10059
- Ammonium nitrate**,
fertilizer, *Rhizobium meliloti* + alfalfa,
nodulation, nitrogen fixation 5490
- Ammonium sulphate**,
Helminthosporium turcicum, corn 4333
- Amocid**,
vaccinia virus 6736
- Amomum cardamomum**,
Corynebacterium, penicillin 8831
- Amomum subulatum**,
wheat streak mosaic virus 2732
- Amomum subulatum**,
fungi 4224
- Amorpha canescens**,
nodulation/nitrogen fixation 2878
- Amorphophallus campanulatus**,
Fusarium moniliforme 5365
- Amorphotheca resinae**,
hexadecane 2094
- Amoxicillin**,
10289, 5678
+ cloxacillin, antibacterial agent 8149
+ flucloxacillin, antibacterial agent 3025
8149
+ mecillinam, antibacterial agent 1366
alpha-haemolytic *Streptococcus* 4728
anaerobic bacteria 2994
antibacterial agent 3752 8113
antibacterial agent 2178 2969
arginine salt 10291
assay, fluorometry 8150
bacteria, beta-lactamase 7542
Clostridium perfringens 7371
derivatives 10290
dimerization 9080 9081
Enterobacteriaceae 6557
Listeria monocytogenes 5629
Pseudomonas pseudomallei 8117
resistance, *Neisseria gonorrhoeae* 2099
self-catalysed hydrolysis 9081
Staphylococcus aureus 3024
- AMP**,
Aspergillus parasiticus, aflatoxins 4256
cyclic, *Microbacterium* 5118
- cAMP phosphodiesterase**,
Rhodospirillum rubrum 3250
- Amphotericin**,
Actinomyces levoris, sunflower oil cake meal
10224
resistance, *Candida albicans* 6489
- Amphotericin A**,
metal complexes, antifungal agent 1376
- Amphotericin B**,
+ amikacin 4794
+ antioxidants, antifungal agent 7416
- Amphotericin B (Contd.)**,
+ doxycycline, *Candida albicans* 5646
+ 5-fluorocytosine, *Candida albicans* 8990
+ rifampicin, *Candida albicans* 5646
+ rifampin, *Candida albicans*, microdilution
transfer plate technique 5627
+ succinic acid, antifungal agent 3050
Actinomyces nodosus, streptomycin 10306
antifungal agent 2992
antifungal agent, culture medium 3706
antifungal agent, radiometry 5694
antifungal agent, sensitivity testing medium
2232
Aspergillus niger, lipids 9053
assay, *Paecilomyces varioti* 5693
assay, rubidium-86 release, *Candida*
parapsilosis 3791
assay, rubidium + *Saccharomyces cerevisiae*
5696
assay, spectrophotometry 9105
Candida albicans 565 10326
Candida albicans phosphatase 5645
Candida scottii 9106
coccidioides immitis 8168
cyclic hemiketals, carbon-13 nuclear magnetic
resonance spectroscopy 6567
Dictyostelium discoideum 8169
insect cell culture 10325
metal complexes, antifungal agent 1376
methyl ester 10266
methyl ester hydrochlorides, antifungal agent
5644
methyl ester, insect cell culture 10325
resistance, *Candida albicans* 4639
resistance, *Candida krusei* 7312
resistance, *Candida parakrusei* 7312
resistance, *Candida tropicalis* 7312
sorption, polyvinylpyrrolidone 6607
tritium-labelled, methyl-C14-ester 2231
tritium-labelled, sodium desoxycholate
complex 2231
tritium-labelled, *Streptomyces nodosus* 2231
- Amphotericin B methyl ester**,
antimycoplasmal agent 4780
- Ampicillin**,
5678 8151
+ amikacin 4794
+ aminoglycoside antibiotic, antibacterial
agent 5671
+ aminoglycoside antibiotic, *Streptococcus*
group D 5634
+ aminoglycoside antibiotic, *Streptococcus*
viridans 5634
+ dicloxacillin, antibacterial agent 8149
+ mecillinam, antibacterial agent 1366
+ phosphomycin, antibacterial agent 6558
+ quinacrine/ethidium
bromide/tilorone/Nitroakricin, *Salmonella*
typhimurium 4766
+ sisomicin, antibacterial agent 7382
+ streptomycin, *Streptococcus faecalis* 7379
alpha-haemolytic *Streptococcus* 4728
anaerobic bacteria 2994 9038
antibacterial agent 2177 2178 5752 4764 6583
10241 10269
antibacterial agent, antibiotic sensitivity
testing 9035
antibacterial agent, bacterial ATP,
antibiotic sensitivity testing 8154
antibacterial agent, sensitivity test
broth/urine 3009
antibacterial sensitivity, dip-slide 2931
antibiotic mixture, microbiological assay
2990
antibiotic sensitivity testing 550 5625
antibiotic sensitivity testing, blood culture
551
antibiotics-resistant *Salmonella typhi* 7377
assay, fluorometry 6552
Bacillus cereus beta-lactamase 8153

Subject index

Ampicillin(Contd),

bacterial beta-lactamase, double disc method 3288
Bacteroides fragilis 2996
Bacteroides melaninogenicus, beta-lactamase 4640
Bacteroides cralis, beta-lactamase 4640
bile system microflora 2995
Chlamydia trachomatis 10242
Citrobacter freundii/*Citrobacter diversus* 7370
Corynebacterium minutissimum 1306
Corynebacterium parvum 1304
dental plaque/dental caries 747
derivatives, antibacterial agent 599 2221
dimerization 9080
direct compression formulations 1359
Enterobacter aerogenes 1214
Enterobacter cloacae 2993
Enterobacteriaceae 4767 6557
Enterobacteriaceae, resistance 4767
Escherichia coli 555 1214 1304 2993 6583 7368
Escherichia coli, clavulanic acid 8178
Escherichia coli, electron microscopy 1360 4722
fluorometric assay 7390
Haemophilus influenzae 558 604 5640 6581 7278 8114 10292
Haemophilus influenzae, Autobac system 5670
Haemophilus influenzae, resistance 8114
Haemophilus influenzae, sensitivity testing 9083
Haemophilus parainfluenzae 8115
Klebsiella 7358
Klebsiella aerogenes, clavulanic acid 8178
Klebsiella pneumoniae 1214 2993
Listeria monocytogenes 5629 5671
mastitis-causing microorganisms 2167
milk, assay, *Sarcina lutea*/*Bacillus subtilis* 5206
milk, thin-layer chromatography 1722
minibag/minibottle antibiotic admixtures, stability 9010
Neisseria gonorrhoeae 2997 8118
Neisseria meningitidis 4724
partition coefficients 8152
polymers, column chromatography 6580
Propionibacterium acne 1306 5630
Propionibacterium avidum 1306
Propionibacterium oranzulosum 1306
Proteus 1304 2993 7368 9049
Proteus mirabilis 1214 6583
Proteus mirabilis, clavulanic acid 8178
Providencia 2993
Pseudomonas aeruginosa 1214 1304 2993 6550 7368
Pseudomonas pseudomallei 8117
quality control, membrane filtration 10287
resistance, *Bacillus licheniformis*, penicillinase, alkylsulphates/alkylarylsulphonates 8953
resistance, bacteria 4721 5526
resistance, coliform, R factor, sewage treatment 2305
resistance, coliforms, food 6028
resistance, *Enterobacter aerogenes*, cephalosporinase 9372
resistance, *Escherichia coli* 1205 3676 6474
resistance, *Escherichia coli*, food 6028
resistance, *Escherichia coli*, beta-lactamase, R factor 8954
resistance, *Haemophilus influenzae*, beta-lactamase 5531
resistance, *Haemophilus influenzae*, beta-lactamase testing 2103
resistance, *Haemophilus influenzae*, penicillinase paper strip test 9266
resistance, *Haemophilus influenzae*, R factor 10118

Ampicillin(Contd),

resistance, *Haemophilus parainfluenzae* 8115
resistance, *Haemophilus paraphrophilus* 3675
resistance, *Klebsiella* 6474
resistance, *Proteus rettgeri* 1401
resistance, *Pseudomonas aeruginosa*, beta-lactamase 2102
resistance, *Salmonella* 7300 8948 8949
resistance, *Salmonella typhi* 5529
resistance, *Salmonella typhimurium* 4642 6477
resistance, *Serratia marcescens*, beta-lactamase 3674
resistance, *Shigella* 10120
resistance, *Shigella dysenteriae* 487
resistance, *Shigella dysenteriae*, R-factor 6479
resistance, *Staphylococcus aureus* L-form 3750
resistance, *Staphylococcus*, penicillinase, alkylsulphates/alkylarylsulphonates 8953
resistance, *Yersinia pseudotuberculosis* 4638
Salmonella 9043
Salmonella enteritidis 2593
Salmonella paratyphi 559
Salmonella/Shigella 7350
Salmonella typhi 559
sensitivity testing, *Haemophilus influenzae* 9082
Serratia marcescens 2993
Staphylococcus 1304 7368
Staphylococcus aureus 1214 6583
Staphylococcus aureus, clavulanic acid 8178
Streptococcus 7368
Streptococcus faecalis 1214 3003
Streptococcus group B 3194
Streptococcus group D 5634 7363
Streptococcus mutans 552
Streptococcus pneumoniae 5671
Streptococcus viridans 5634
susceptibility testing, *Haemophilus influenzae* 7412
Vibrio cholerae, antibiotic sensitivity testing 9046
vitamins/nicotinamide/p-aminobenzoic acid 2991
Yersinia enterocolitica 4730

Ampoule,

sterilisation 6535
sterilisation, hot air/infrared radiation 6534

Ampullariella,

glycoside-hydrolase inhibitor 80

Amylase,

Aspergillus cinnamomeus 16
Aspergillus foetidus, baked bean waste 8354
Aspergillus niger, turbidimetric assay 6863
Aspergillus terricola 8349
Bacillus 5041
Bacillus subtilis 5043 8353
Bacillus subtilis, silage preservative 3418
Bacillus thuringiensis 9360
Cephalosporium sacchari, sugarcane 4347
fungal, paper degradation 2551
microbial, food 134
microbial, rye mash fermentation/saccharification 6978
microbial, soil, lead 6409
microbial, 2-p-toluidinylnaphthalene-6-sulphonate fluorescence 9356
Monascus anka 8498
Mucor miehei 4066
Mucor pusillus 4066
Penicillium digitatum 4032
Rhizopus, glycopeptide, structure 2427
Streptomyces aureofaciens 3252 3253 3254 3795
Streptomyces, maltose 15

Subject index

- Amylase (Contd),**
 testing medium, Mueller-Hinton agar,
 Streptococcus bovis/Streptococcus group
 D/Pseudomonas stutzeri 4000
 Thermomonospora viridis 4067
 thermophilic fungi 9350
 Trichoderma 9371
- Alpha-Amylase,**
 Aspergillus aureus 5050
 Aspergillus awamori 8348
 Aspergillus niger 5918
 Aspergillus oryzae 7609 7610 9361
 Bacillus acidocaldarius 2451
 Bacillus amyloliquefaciens, dextran conjugate
 2452
 Bacillus subtilis 8347
 Bacillus subtilis, beer wort 4157 4158
 bacteria, dextrin, low D.E. starch
 hydrolysate syrup 6931
 bacteria, starch hydrolysis, low D.E.
 malto-dextrin 6932 6933
 bacterial, beer wort 7698
 Bacteroides amylophilus 5949
 Colletotrichum coccodes, tomato 6309
 immobilization 4057
 immobilization, microorganisms 2
 microbial, affinity chromatography,
 Actinomycetales alpha-amylase inhibitor
 9357
 Streptomyces olivaceus 6861 6862
 Thermomonospora vulgaris 8355
 Trichoderma viride, starch degradation 4181
 4182
- Beta-Amylase,**
 Bacillus cereus, filamentation 9358
 Bacillus cereus, maltose 2453 2454
 Bacillus cereus, sporulation 9359
 Colletotrichum coccodes, tomato 6309
 immobilization, microorganisms 2
- Amylase inhibitor,**
 Streptomyces 4049
- Alpha-amylase inhibitor,**
 Actinomycetales, microbial alpha-amylase,
 affinity chromatography 9357
- Amylocyanin,**
 Streptomyces coelicolor 6942
- Amyloglucosidase,**
 Aspergillus awamori 17 9362
 Aspergillus niger, immobilisation 5920
 Aspergillus oryzae 17
 Aspergillus phoenicis 17
 Humicola lanuginosa 5919
 immobilisation, Aspergillus niger 3255
 immobilization 4056
 microbial, food 134
 Mucor miehei 5919
 Rhizopus, immobilisation 5921
 Rhizopus niveus 17
 Rhizopus, thin layer-flow reactor 7611
 Sporotrichum thermophile 5919
 Torula thermophila 5919
- Amylolytic enzyme,**
 Trichoderma viride, starch degradation 4181
 4182
- Amylolytic enzyme system,**
 Aspergillus oryzae 7610
- Amylomaltase,**
 Escherichia coli 2455
- Amyloxyces rouxii,**
 + yeast, Indonesian tape ketan fermentation
 8452
- Anaerobic bacterium,**
 10647
 ampicillin 9038
 antibiotic sensitivity testing 2165 10232
 antibiotic sensitivity testing, medium 4716
 antibiotic sensitivity testing,
 Wilkins-Chalgren medium 10229
 antibiotics 2994
 blood agar medium 3956
- Anaerobic bacterium (Contd),**
 blood culture medium 10550
 carbenicillin 9038
 cefazolin 8135
 cefoxitin 8135
 cephalosporins 3010
 cephalothin 8135 9038
 cephradine 8135
 chloramphenicol 9038
 clindamycin 9038
 culture 3954 5834 7544 8270
 culture, amorphous ferrous sulphide 6765
 culture chamber 10544
 culture, GasKit disposable hydrogen and
 carbon dioxide generator 4935
 culture medium 5834
 culture medium, antibiotic sensitivity
 testing 6764
 culture medium, titanium citrate 4934
 evacuation and gassing device 10545
 fermentation, horse blood agar medium 3168
 identification test 10549
 metronidazole 7323
 miniaturized counting technique 4935
 Minitek-Bioquest system/Analytab Products Inc
 system 3958
 minocycline 9038
 modified plate holding system 10547
 nitrate reductase test 10546
 ornidazole 7323
 penicillins 3010
 phosphomycin 3074
 pre-reduced anaerobically sterilised culture
 medium 7543
 prereduced anaerobically sterilised medium,
 butyl rubber stoppers 9261
 preservation 4703
 respiration, electroce monitoring 3953
 roll-streak method 1556
 semi-micromethod, colorimetry 3957
 swine faeces,
 culture/isolation/identification medium
 4938
 tests, impregnated disc method 10548
 thiamphenicol/chloramphenicol 9096
 thin-layer chromatography 5262
 ticarcillin/carbenicillin/penicillin 5673
 ticarcillin/cefoxitin/cartenicillin/cephaloth
 in/penicillin/metronidazole/clindamycin/chlo
 ramphenicol 7375
 tinidazole 7323
 transport medium 3955
 urease assay 8271
- Anaerobic culture chamber,**
 10544
- Anaerobic digestion,**
 thermophilic, waste treatment 7470
 waste treatment 7473
- Anaerobic glove box,**
 transparent plastic incubator 6752
- Anaerobic jar,**
 1542
 automatic evacuation/filling apparatus 3154
- Anaerobic microorganism,**
 isolation chamber 1543
 isolation system 1557
- Anaerobic system,**
 evacuation and gassing device 10545
- Anaerobiosis,**
 antibiotic sensitivity testing 6547
 antibiotics, Staphylococcus 9044
- Anaesthesia equipment,**
 automatic disinfection cabinet, formaldehyde
 + ammonia 4896
- Analgesic agent,**
 antibacterial agent 6495
- Analyser,**
 immobilized penicillinase-based
 flowing-stream, penicillin 589

Subject index

- Analytab Products Inc. 20C test,**
yeasts 9290
- Analytab Products Inc.-20E system,**
blood culture bacteria 5835
- Analytab Products Inc. Clinical Yeast System,**
yeasts 10610
- Analytab Products Inc system,**
anaerobic bacteria 3958
- Analytab Products Inc. test,**
yeasts 1593
- Ananas comosus,**
Ceratocystis paradoxa, fungicide 8822
Fusarium moniliforme 5383
Penicillium funiculosum 5383
Phytophthora nicotianae 7161
Phytophthora palmivora 7161
viral wilt 4400
- Anatoxin,**
1813
- Anderson's medium,**
bacteria, estuarine water 3135
- Andropogon gerardi,**
nitrogen fixation, nitrogenase 4597
- Andropogon scoparius,**
nitrogen fixation, nitrogenase 4597
- Androsta-1,4-diene-3,17-dione,**
progesterone transformation, Cylindrocarpum
radicicola 5981
progesterone transformation, Fusarium solani
5981
- Androstadiene-3,17-dione,**
beta-sitosterol degradation, Nocardia 8401
- Androstadienedione,**
progesterone transformation, Cylindrocarpum
radicicola 8400
progesterone transformation, Fusarium solani
7670
- Salpha-Androstan-17-one,**
3beta,4alpha-dihydroxy-, Mycobacterium phlei
57
- Androstane,**
halogeno-oxo-, hydroxylation, Calonectria
decora/Rhizopus nigricans/Aspergillus
ochraceus 58
- Salpha-Androstane,**
oxygenated, 16beta-18-dihydroxylation,
Leptosporus fissilis 3325
- Salpha-Androstane-4,17-dione,**
3beta-hydroxy-, Mycobacterium phlei 57
- Sbeta-Androstane-4,17-dione,**
3beta-hydroxy-, Mycobacterium phlei 57
- Androstene-3,17-dione,**
beta-sitosterol degradation, Nocardia 8401
- 4-Androstene-3,17-dione,**
4-hydroxy-, reduction, Mycobacterium phlei
57
- Anethum graveolens,**
Erysiphe umbelliferarum 1911
- Angelonia salicariaefolia,**
witches' broom, mycoplasma 3500
- Anguidine,**
protein synthesis 3434
- Angular leaf spot,**
Colletotrichum lindemuthianum, bean 4288
Isariopsis griseola, bean 1842
Pseudomonas lachrymans, cucumber 1926 9858
Pseudomonas lachrymans, cucumber, resistance
3556
Pseudomonas lachrymans, Cucumis sativus 4291
Xanthomonas fragariae, strawberry 4417
- Angular leafspot,**
Pseudomonas lachrymans, cucumber 9859
- 2,2-Anhydro-1-beta-D-arabinofuranosylcytosine,**
acyl derivatives, antiviral agent 5588 5589
- Anhydro-beta-rotunol,**
antifungal agent 3568
- Anhydromevalonic acid lactone,**
Lactobacillus acidophilus 1272
Lactobacillus heterohiochii 1272
Saccharomyces carlsbergensis 1272
- Anhydromevalonic acid lactone(Contd),**
Saccharomyces cerevisiae 1272
- Anhydrotetracycline,**
see Tetracycline, anhydro-
- Anilide,**
derivatives, fungicide/antibacterial agent
6511
fungicide, degradation, soil Nocardia 1179
isodehydroacetic acid, fungicide, plant
protection 2797
- Aniline,**
derivatives, fungicide, plant protection
6365
halogenated, degradation, soil Paracoccus
8035
- 1-Anilino-8-naphthalene sulphonic acid,**
magnesium salt, fluorescence staining,
microorganisms 3158
- Animal,**
feed, ammonium/potassium isobutyrate 1257
tissues, lincomycin residues, assay 2227
- Animal fat,**
microbiology 166
- Animal feed,**
see Feed, animal
- Animal house,**
disinfection 9234
- Animal husbandry,**
1615
- Animal production,**
hygiene 6744
- Animal tissue,**
aflatoxins 978
- Anisogramma anomala,**
filbert 4363
- Anixiopsis,**
cephalosporin 6568
- Anixiopsis peruviana,**
deacetoxycephalosporin C 10282
- Anona squamosa,**
Pestalotia 1003
- Ansamycin antibiotics,**
10264
- Anthelmintic,**
hikizimycin, structure 6624
- Anthostomella cylindrospora,**
coconut palm 4382
- Anthostomella fusispora,**
coconut palm 4382
- Anthraxene,**
degradation, marine bacteria 480
microbial degradation 1708
petroleum wastewater, microbial treatment
691
- Anthraxnose,**
Colletotrichum capsici, chilli, plant
protection 7145
Colletotrichum capsici, melon 1066
Colletotrichum dematium, soybean 4311
Colletotrichum gloeosporioides, Stylosanthes
5314
Colletotrichum gloeosporioides, tangerine,
ethylene 5401
Colletotrichum gloeosporioides, tangerine
post-harvest decay 7193
Colletotrichum graminicola, corn 4331 6215
6216 6217 6218 9788
Colletotrichum graminicola, corn, resistance
6216 6218 6332
Colletotrichum lagenarium, bottlegourd,
fungicide 6357
Colletotrichum lagenarium, cucumber,
biological control 7954
Colletotrichum lagenarium, cucumber,
7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine
derivatives 3589
Colletotrichum lagenarium, melon 2747
Colletotrichum lagenarium, watermelon, copper
compound 2026

Subject index

Anthracnose(Contd),

Colletotrichum lagenarium, watermelon, fungicide 6357
Colletotrichum lindemuthianum, bean 1842 6183 9756
Colletotrichum lindemuthianum, bean, biological control, Colletotrichum 1999
Colletotrichum lindemuthianum, bean, fungicide 384
Colletotrichum lindemuthianum, bean, resistance 3547
Colletotrichum lindemuthianum, cowpea, resistance 7194
Colletotrichum lindemuthianum, lablab, seed treatment fungicide 2824
Colletotrichum musae, banana, imazalil 3540
Colletotrichum, tomato, ethephon + fungicides 8805
Colletotrichum trifolii, alfalfa 6175
Colletotrichum trifolii, alfalfa, resistance 9925
Colletotrichum trifolii, alfalfa, resistance testing 6328
Colletotrichum trifolii, red clover, resistance 9927
Colletotrichum truncatum, pigeon pea 2681
Colletotrichum truncatum, soybean 6196
Gloeosporium, blueberry 2764
Glomerella cingulata, chilli 2733
Gnomonia leptostyla, black walnut 2051
Gnomonia leptostyla, black walnut, benomyl 10008
Gnomonia leptostyla, black walnut, fungicide 10016
Gnomonia platani, trees, trace metal leaf pollutants 7239
Melon, Colletotrichum lagenarium 1067
Northern, Kabatiella caulivora, subterranean clover 6185
Anthracycline antibiotic, bacterial reduction 1383
Anthracycline antibiotics, + ultraviolet radiation/mitomycin c, bactericide 5747
Anthracycline glycoside reductase, NADH-dependent, Aeromonas hydrophila 6864
Anthracynines, 7363
Anthracycin, Streptomyces refuineus 5716
Anthranilate-5-phosphoribosylpyrophosphate phosphoribosyltransferase-anthranilate synthase, Salmonella typhimurium 1640
Serratia marcescens 1639
Anthranilate synthase-anthranilate-5-phosphoribosylpyrophosphate phosphoribosyltransferase, Salmonella typhimurium 1640
Anthraquinone, derivatives, antiviral agent 7342
Anthraquinone pigment, Streptomyces thermoviolaceus 7432
Anthrax, see Bacillus anthracis
Anthrax vaccine, 3087 6668
Anthriscus yellow virus, parsnip yellow fleck virus, Cavariella aegopodii 1832 1833
Anti-cholesterol agent, citrinin 5727
Anti-foam agent, fermentation 88
Anti-foaming device, fermentor 3939
Anti-inflammatory agent, bacillopeptidase C 9365
microbial 9500

Anti-pyrosis composition,

Lactobacillus bulgaricus 2416
Antiamoebin, mycoplasma-like organism, purple top roll disease, potato 5386

Antibacterial agent,

see also under Antimicrobial agents, under Plant protection: Antimicrobial and microbiocidal agents and under Antibiotics
469 1302 2406 2969 4693 5274
1-[4-(alkoxyphenoxy)-butyl]-1-ethyl-piperidin-ium bromide 2977
1-[(5-nitro-2-furyl)methyl]-2(1H)-pyridone 16157
1-[L-(-)-gamma-amino-alpha-hydroxybutyryl]-kanamycin A 7413
2-hydroxygentamicin C 9093 9094
2-isopropoxynaphth-1-yl penicillin + cephaloridine/cephalothin 556 557
2-substituted iodo alkenyl compound 2110
3,5-diaryl-4-(substituted sulphonamidobenzeneazo) pyrazoles 5558
3-amin-1,2,4-benzotriazine-1,4-di-N-oxide 10158
3-chloro-tetrahydropyrimidin-2(1H)-one 1267
3-deoxybutirosin A 2253
3-deoxydehydrostreptomycin 6594
3-formylrifamycin SV dimeric hydrazones 6603
3-methyl-5-aryl-4-(substituted sulphonamidobenzeneazo) isoxazoles 5554
5-amino-3,5-dideoxybutirosin A 6629
5-amino-5-deoxybutirosin 1409
5-deoxyneamine 1442
5-hydroxy-1-[[[5-nitro-2-furyl)methylene]amino]-2,4-imidazolidinedione 7321
5-ketocorfolin B derivatives 9135
6-(alpha-3-acyl-ureidoacetamido)-penicillanic acids 7410
6-aminopenicillanic acid derivative 9050
6-aminopenicillanic acid derivatives 3778 10303
6-(D-(-)-alpha-aminophenylacetamido)-penicillanic acid 4764
6-(N,N-1,6-hexyleneformamidino)-penicillanic acid pivaloyloxymethyl ester 5675
6beta-acylamino-6 alpha-alkoxy penicillins 2173
6beta-isocyano-penicillin derivatives 7373
7-(2-aminomethylphenylacetamido)-3-(1-carboxymethyltetrazol-5-ylthiomethyl)-cephem-4-carboxylic acidpham-4-carboxylic acid 7398
7-alkylthioacetamido cephalosporins 2199
7-methoxy-6-thiatetracyclines 10330
7beta-acylamino-7 alpha-alkoxy cephalosporins 2173
7beta-isocyano-penicillin derivatives 7373
9-oxo-13-trans-prostenoic acid amide derivatives 10194
2-acetylindole halogen derivatives 5597
actinoidin 3817
Actinomadura coerulescens antibiotics 5618
Actinomyces israelii 7369
Actinomyces reifenensis lytic enzyme 2480
actinomycin antibiotic 70591 1389
actinorhodin 3062
actinoxanthin 5120
acyl derivatives 497
aflatoxin B1, Bacillus thuringiensis 7819
Agrobacterium radiobacter, Agrobacterium tumefaciens, peach 2820
Agrobacterium tumefaciens, Chrysanthemum morifolium 1920
Agrobacterium tumefaciens, Prunus 401
agrocin 84, Agrobacterium radiobacter, crown gall biological control 5991

Subject index

Antibacterial agent(Contd),

aerocin 84, *Aerobacterium tumefaciens* 1404
 alanine-containing peptide derivatives 6506
 alborixin 4793 5714
 alcoholic chlorhexidine, antiseptic 8252
 alcoholic chloroxylenol, antiseptic 8252
 aliphatic diol, cosmetic preservative 4699
 aliphatic diol diesters 3720
 alkylphenols 531
 L-5-alkylthiomethylhydantoin-S-oxide 5556
 alpha-ethyl-alpha-aminopropylpenicillin 1364
 alpha-haemolytic *Streptococcus* 4728
 alpha-halogenated fatty acid 1255
 alpha-sulphocephalosporins 5659
Alpinia officinarum flavonoid 7348
Alteromonas luteo-violaceus antibiotic 3055
 ambodryl 2938
 ambruticin 10351
 amikacin 1319 2189 3758 4826 7384 7385 7427
 8113 10260
 amikacin, antibiotic sensitivity testing,
 Pseudomonas aeruginosa 8116
 amikacin + carbenicillin, *Serratia marcescens*
 4743
 amikacin + cefazolin, *Klebsiella* 3756
 amikacin/gentamicin/kanamycin/sisomicin/tobra-
 mycin 7384
 amikacin, *Klebsiella* 4723
 amikacin, *Propionibacterium acnes* 5630
 amikacin, *Pseudomonas aeruginosa* 564 1321
 amikacin, *Serratia marcescens* 4743
 amikacin, *Staphylococcus aureus* 5632
 amine oxide derivatives 10196
 aminocarbonylthioates 1263 1264
 aminimide derivatives 10197
 amino acids, *Pseudomonas*, plant protection
 3457
 omega-aminoacyl-4-aminobenzoic acid
 derivatives, *Staphylococcus aureus* 10153
 aminocyclopencillins 2222
 aminobenzoic acid derivatives, *Staphylococcus*
 aureus 10153
 4-aminocyclohexanecarboxylic acid
 derivatives, *Staphylococcus aureus* 10153
 aminoglycoside antibiotic 561
 aminoglycoside antibiotic, *Pseudomonas*
 aeruginosa 1206
 aminoglycoside antibiotic, *Staphylococcus*
 aureus 1207
 aminoglycoside antibiotics 3755 4826 9032
 10254 10257
 aminoglycoside antibiotics, salt antagonism
 4742
 aminoglycoside antibiotics sensitivity
 testing, *Enterobacteriaceae* 10259
 aminotrioxobutyrosine A 2254
 ammonium/potassium isobutyrate 1257
 amoxicillin 8113
 amoxicillin, bacteria, beta-lactamase 7542
 amoxycillin arginine salt 10291
 amoxycillin + flucloxacillin 3025
 amoxycillin, *Staphylococcus aureus* 3024
 amphoterin E, *Dictyostelium discoideum*
 8169
 amphoterin 5 methyl ester, *Mycoplasma* 4780
 ampicillin 10269
 ampicillin, anaerobic bacteria 9038
 ampicillin, bacterial ATP, antibiotic
 sensitivity testing 8154
 ampicillin/cefuroxime, *Haemophilus influenzae*
 7378
 ampicillin, clavulanic acid 8178
 ampicillin derivatives 599 2221
 ampicillin, *Enterobacteriaceae* 4767
 ampicillin, *Escherichia coli* 1360
 ampicillin, *Escherichia coli*, electron
 microscopy 4722
 ampicillin/gentamicin, *Streptococcus* group B
 2188
 ampicillin, *Haemophilus influenzae* 558 604

Antibacterial agent(Contd),

ampicillin, *Haemophilus influenzae* 6581 8114
 9083 10292
 ampicillin, *Haemophilus influenzae*, Autobac
 system 5670
 ampicillin, *Haemophilus influenzae*
 sensitivity testing 9082
 ampicillin, *Listeria monocytogenes* 5671
 ampicillin, *Propionibacterium acnes* 5630
 ampicillin, *Salmonella paratyphi* 559
 ampicillin, *Salmonella/Shigella* 7380
 ampicillin, *Salmonella typhi* 559
 ampicillin, sensitivity test broth/urine
 3009
 ampicillin + sisomicin 7382
 ampicillin, *Streptococcus* group B 2188
 ampicillin, *Streptococcus pneumoniae* 5671
 ampicillin + streptomycin, *Streptococcus*
 faecalis 7379
 analgesic agent 6495
 anhydroerythromycin B 3046
 anhydromevalonic acid lactone 1272
 antibiotic 19 402 R.P. 3798
 antibiotic 41.012 10334
 antibiotic 66-403 10335
 antibiotic 66-400 10335
 antibiotic 1745A/X 10337
 antibiotic 1998 3057
 antibiotic 333-25 1287 1388
 antibiotic 339-29 5704
 antibiotic 342-14-T 4787
 antibiotic 792 9114
 antibiotic A16884 6619
 antibiotic A2041 derivatives 200
 antibiotic A23187 2239
 antibiotic A30641 2241
 antibiotic A-2315 623 3799
 antibiotic A-26771 1390
 antibiotic A-30641 10339
 antibiotic A-32390 10340 10341
 antibiotic A-4696 624
 antibiotic AB-74 1391
 antibiotic AS-H-23A 9116
 antibiotic ASK-753, *Bacillus subtilis* 1393
 antibiotic AV290 alkylated derivatives 1394
 antibiotic B371 5706
 antibiotic B-43 5705
 antibiotic BM 123 3058
 antibiotic DE-3936/lonomycin 2242
 antibiotic EM-49 4788
 antibiotic EM-49 tetramidino derivatives
 5707
 antibiotic G-52 1397 1398 10342
 antibiotic G-418 1400
 antibiotic J1-20A 10343
 antibiotic J1-20B 10343
 antibiotic K-52A 3059
 antibiotic KM-214 2243
 antibiotic LL-BM408 10311
 antibiotic No. K-73 3803
 antibiotic NRC-501 3060
 antibiotic OS-1804 10345
 antibiotic OS-3256-B 9456
 antibiotic P-3355 2244
 antibiotic Sch 2656 563
 antibiotic sensitivity test, standardization
 2989
 antibiotic sensitivity testing 1298 1299
 1616 4713 4714 4717 5625 8111 9034 9035
 9036 10228 10233 10234 10239 10240
 antibiotic sensitivity testing, anaerobic
 bacteria 2165 10232
 antibiotic sensitivity testing, anaerobic
 bacteria, Wilkins-Chalgren medium 10229
 antibiotic sensitivity testing, Autobac 1
 system 7367
 antibiotic sensitivity testing, automatic
 zone analyser 1300
 antibiotic sensitivity testing, bacteria,
 Autobac 1 10539

Subject index

Antibacterial agent(Contd),

antibiotic sensitivity testing, blood culture 551
antibiotic sensitivity testing, Citrobacter freundii/Citrobacter diversus 7370
antibiotic sensitivity testing, computer 7366 10508
antibiotic sensitivity testing, electrical impedance 10230
antibiotic sensitivity testing, Enterobacteriaceae 4720
antibiotic sensitivity testing, Escherichia coli 1301
antibiotic sensitivity testing, medium 10231
antibiotic sensitivity testing, Micrococcus luteus 8112
antibiotic sensitivity testing, Pseudomonas aeruginosa 4720
antibiotic sensitivity testing, replicate stamper 10226
antibiotic sensitivity testing, Staphylococcus aureus 1301
antibiotic sensitivity testing, Ureaplasma urealyticum 5626
antibiotic sensitivity testing, urinary tract bacteria 4718
antibiotic sensitivity testing, Vibrio cholerae 9046
antibiotic TA 6621
antibiotic TM-481 626
antibiotic U-43,120 4126
antibiotic U-43120 1402
antibiotic U-48266 4785
antibiotic WS-4545 acyl derivatives 10346
antibiotic X-372A 1403
antibiotic Y-537A derivatives 627
antibiotic XK-90 5710
antibiotics 2407 4631 5526 5616 5617 5624 5874 6546 10221 10237 10241
antibiotics, N-acetylcysteine 10238
antibiotics, Actinomyces israelii 7369
antibiotics, anaerobic bacteria 2994
antibiotics, Arachnia propionica 7369
antibiotics, Bacillus cereus 9037
antibiotics, bile system microflora 2995
antibiotics, Chlamydia trachomatis 10242
antibiotics, Clostridium 4721
antibiotics, Clostridium histolyticum 9039
antibiotics, Clostridium perfringens 5628 7371
antibiotics, Diplococcus pneumoniae 4721
antibiotics, enterobacteria 9040
antibiotics, Enterobacteriaceae 6557 6565
antibiotics, Escherichia coli 3671
antibiotics, Fusobacterium necrophorum 10243
antibiotics, Haemophilus parainfluenzae 8115
antibiotics, hydroxypropyl methylcellulose artificial tear solution 4712
antibiotics, Klebsiella 4721
antibiotics, Listeria monocytogenes 5629
antibiotics, marsh bacteria 3056
antibiotics, mastitis-causing microorganisms 2167
antibiotics + melanin 1303
antibiotics, membrane filtration 9029
antibiotics, mycoplasma, witches' broom, Angelonia salicariaefolia 3500
antibiotics, Neisseria gonorrhoeae 8118
antibiotics, Neisseria meningitidis 4724 9042
antibiotics, Pasteurella haemolytica 3747
antibiotics, Pasteurella multocida 3747 6548
antibiotics, Proteus 4721
antibiotics, Proteus hauseri 10244
antibiotics, Proteus rettgeri 1201
antibiotics, Pseudomonas 4721
antibiotics, Pseudomonas aeruginosa 3749 6550 10245
antibiotics, resistance, Escherichia coli 3671

Antibacterial agent(Contd),

antibiotics, resistance, Pseudomonas aeruginosa 3749
antibiotics, Rickettsia prowazeki 5878
antibiotics, Salmonella 1307 4721 8949 9043
antibiotics, Salmonella typhimurium 10246
antibiotics, Staphylococcus 1309 3001 4721 8119
antibiotics, Staphylococcus, anaerobiosis 9044
antibiotics, Staphylococcus aureus 2169 3002 8119
antibiotics, Staphylococcus aureus L-form 3750
antibiotics, Staphylococcus epidermidis 8119
antibiotics, Staphylococcus hyicus 3002 9045
antibiotics, Streptococcus 4721
antibiotics, Streptococcus group B 3194
antibiotics, Streptococcus group D 5634
antibiotics, Streptococcus viridans 5634
antibiotics + vitamins/nicotinamide/p-aminobenzoic acid 2991
antibiotics, Yersinia enterocolitica 4730 6551
antihistamine 5549
antiseptic 7508
antiseptics, Providencia stuartii 4654
antitumour antibiotic, Staphylococcus aureus 9120
aplasomycin 5717
Arachnia propionica 7369
arylsulphonylacetic acid hydrazide derivatives 8985
assay, Bacillus stearothermophilus 4719
asukamycin 5719
atebrin, bacterial adenosine triphosphatase 5561
azaserine, Escherichia coli, phenylalanine 10353
azetidinone derivatives 3687
azlocillin 8155 10293
Bacillus cereus vitamin B12 antimetabolite 4580
Bacillus stearothermophilus bacteriocin, Bacillus stearothermophilus 4041
Bacillus subtilis antibiotic 9028
bacitracin 9104
bacterial metabolism, radiometry 3166
bacteriocin, Clostridium perfringens, mitomycin C 8328
bacteriocins 2439
bacteriocins, Lactobacillus 6626
Bacteroides fragilis antibiotic 2996
barbituric acid derivatives 2140
benadryl 2938
benzalkonium chloride 6539 6738
benzazepine derivatives 3686
benzene derivatives 2131
benzo-1,2,4-triazines 1225
benzodiazepine derivatives 5560
benzoisothiazolinone + nitrofuryl/nitrothiaryl derivatives 10159
benzotriazine-1,4-dioxide derivatives 2091 2118
benzylacrylonitrile derivatives 500
N-benzylidenediphenylamine-2-carboxylic acid hydrazide derivatives 10165
4-benzylloxy-2(1H)-pyridone 9009
benzylpyrimidine derivatives 8978
beta-amino ketones 2108
bis-biquanido hexane compound, oral hygiene 8261
bile acids, Staphylococcus 7316
biological control, Agrobacterium radiobacter, Agrobacterium tumefaciens, Prunus 5438
biological control, Agrobacterium tumefaciens, almond 7219

Subject index

Antibacterial agent (Contd),

biological control, *Agrobacterium tumefaciens*, apricot 7219
biological control, *Agrobacterium tumefaciens*, peach 7219
biological control, *Agrobacterium tumefaciens*, plum 7219
biological control, *Xanthomonas oryzae*, rice 7220
BL-P1654 + gentamicin, *Pseudomonas aeruginosa* 6556
EL-P1654, *Pseudomonas aeruginosa* 6556
bleomycins 629
brevistin 2251
2-bromo-2-hydroxyimino-acetophenone derivatives 8065 8066
5-(bromoacetyl)-uracil 4660
butirosin A derivative 10358
butyl-p-hydroxybenzoate, cholate 7317
butylated hydroxyanisole 5592
butylated hydroxyanisole, food preservative 958
butylated hydroxytoluene 5592
cadmium 8454
cadmium, clay minerals 6455
cadmium, *Escherichia coli* 10086
caffeine, *Staphylococcus aureus* 10160
caiomycin E 6630
calvatic acid 10359
cephalosporin derivatives 5660
epsilon-caprolactam + alkanediamine derivatives 2149
epsilon-caprolactam + alkanediamines, water systems 2318
epsilon-caprolactam + N-alkyl-propylene-diamine reaction products 8102
epsilon-caprolactam + N-alkylalkylene diamine reaction product, industrial water system 3126
carbadox, *Treponema hyodysenteriae* 495
carbamyloxy-tenzamide derivatives 4691
carbanilide derivatives 1219
carbenicillin 8113
carbenicillin + amikacin 7382
carbenicillin + aminoglycoside antibiotic, *Pseudomonas aeruginosa* 1321
carbenicillin, anaerobic bacteria 9038
carbenicillin, antibiotic sensitivity testing, *Pseudomonas aeruginosa* 8116
carbenicillin + doxycycline, *Pseudomonas aeruginosa* 4726
carbenicillin + gentamicin 7382
carbenicillin + gentamicin, *Pseudomonas aeruginosa* 4726 6556
carbenicillin + kanamycin/tobramycin/gentamicin, *Acinetobacter calcoaceticus* 9051
carbenicillin, *Pseudomonas aeruginosa* 4726 6556
carbenicillin, *Saprolegnia* 3026
carbenicillin, sensitivity test broth/urine 3009
carbenicillin + sisomicin 7382
carbenicillin + sisomicin, *Proteus* 7381
carbenicillin + tobramycin 7382
carbenicillin + tobramycin, *Pseudomonas* 7381
carbomycin E 4817
carbamidoquinaxaline-di-N-oxide derivatives 1226
ceftaclor 9059 10272
ceftaclor/cephalexin 10271
cefadroxil 5651 9059
cefadroxil/cephalexin 10270
cefalothin, bacteria, beta-lactamase 7542
cefamandole 1324 1325 3761 3772 9059 10269
cefamandole/cefamandole nafate 10276
cefamandole, *Salmonella typhi* 5652
cefamandole, *Staphylococcus aureus* 1326
cefamandole, anaerobiosis 6547

Antibacterial agent (Contd),

cefatrizine 588 1324 9059 10269
cefatrizine, *Haemophilus influenzae* 558
cefazafur 7401 9059
cefazolin 1324 2195 3761 3773 10269
cefazolin, anaerobic bacteria 8135
cefazolin, anaerobiosis 6547
cefazolin, *Enterobacter* 7402
cefazolin, *Escherichia coli* 2196
cefazolin + gentamicin 7382
cefazolin, *Klebsiella* 7402
cefazolin, sensitivity test broth/urine 3009
cefazolin + sisomicin 7382
cefazolin, *Staphylococcus aureus* 1326
cefoxitin 1325 3761 3773 9059 10269
cefoxitin, anaerobic bacteria 8135
cefoxitin, antibiotic-resistant *Klebsiella pneumoniae* 5655
cefoxitin, *Bacteroides fragilis* 7403
cefoxitin/cephalothin, *Bacteroidaceae* 10273
cefoxitin, cephalothin-resistant *Enterobacteriaceae* 10275
cefoxitin, *Escherichia coli* 5656
cefoxitin, *Klebsiella* 5656
cefoxitin, *Propionibacterium acnes* 5630
cefoxitin, *Proteus* 1332
cefoxitin, *Proteus vulgaris* 5656
cefoxitin, *Staphylococcus aureus* 1326
ceftezole 5654
ceftezole, *Escherichia coli* 1333
cefuroxime 9059
cefuroxime/cephalothin 10277
cefuroxime, *Escherichia coli* 5656
cefuroxime, *Haemophilus influenzae* 8114
cefuroxime, *Klebsiella* 5656
cefuroxime, *Proteus vulgaris* 5656
cephacetrile 3761 6577 10269
cephacetrile + amikacin/gentamicin/sisomicin/tobramycin 6555
cephacetril 9060
cephalexin 1324 2195 3761 9060 10269
cephalexin/cephradine/cefactor 6578
cephalexin lysine salt 6571
cephalexin, *Propionibacterium acnes* 5630
cephaloglycine 3761
cephaloridine 2195 3761 9060 10269
cephaloridine, clavulanic acid 8178
cephaloridine + dicloxacillin 7374
cephaloridine, *Escherichia coli* 9062
cephaloridine, *Escherichia coli*, electron microscopy 4722
cephaloridine isostere 3035
cephalosporanic acid derivatives 554
cephalosporanic acid ester derivative 575
cephalosporin analogue, *Staphylococcus aureus* 10278
cephalosporin antibiotic FR10612 2187
cephalosporin antibiotic SK & F 59962, *Staphylococcus aureus* 1326
cephalosporin BL-S786, cephalothin-resistant *Enterobacteriaceae* 10275
cephalosporin BL-S786 1327
cephalosporin carbocyclic analogues 5658
cephalosporin derivative 1328 1329
cephalosporin derivative CGP 9000 4758
cephalosporin derivative FR10024 5661
cephalosporin derivative, beta-lactamase 581 582
cephalosporin derivatives 570 571 573 574 1311 1312 1313 1314 1315 1316 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 2198 2208 2209 2210 2211 2212 2213 2214 2215 3004 3006 3007 3014 3015 3017 3018 3019 3020 3021 3768 3769 5638 5664 5665 6554 6559 6570 6571 6572 6574 7392 7393 7394 7395 7396 7397 8124 8125 8139 8140 8141 8142 8143 8144 9048 9068 9069 9070 9071 9072 10279 10280
cephalosporin esters 3008

Subject index

Antibacterial agent(Contd).

cephalosporin R-sulphoxides 4736 5637
 cephalosporin SQ 67,590 5662
 cephalosporins 553 568 1323 1324 2174 2178
 2194 2201 2203 3005 3016 3752 3761 3765
 3766 3767 4754 4755 6546 9032 9061 10267
 10268
 cephalosporins aminoalkyl esters 2172
 cephalosporins/ampicillin 2177
 cephalosporins, anaerobic bacteria 3010
 cephalosporins, *Escherichia coli* 555 587
 cephalosporins, *Staphylococcus aureus* 9063
 cephalosporins, turbidimetry 8120
 cephalothin 528 568 1325 2195 3761 3773 5657
 7376 9060 10269
 cephalothin + amikacin, *Klebsiella* 4723
 cephalothin, anaerobic bacteria 8135 9038
 cephalothin, anaerobiosis 6547
 cephalothin, *Escherichia coli* 2196 5656 9062
 cephalothin + gentamicin, *Klebsiella* 4723
 cephalothin + kanamycin, *Klebsiella* 4723
 cephalothin, *Klebsiella* 4723 5656
 cephalothin, *Propionibacterium acnes* 5630
 cephalothin, *Proteus vulgaris* 5656
 cephalothin, sensitivity test broth/urine
 3009
 cephalothin, *Staphylococcus aureus* 2187
 cepham derivatives 2200
 cephamazin 9060
 cephamycin 3761
 cephamycin C 8137
 cephamycin derivatives 6575 10283
 cephamycin-type antibiotic 7399
 cephamycins 9032
 cephanone 3761
 cephradine 1324 2195 3761 10269 10284
 cephem-4-carboxylic acid 7400
 cephem derivative 9064
 cephem derivatives 9065
 cephexazole + penicillin G, bacterial
 beta-lactamase resistance, mastitis 10252
 cephradine 528 2195 3761 9060 10269
 cephradine, anaerobic bacteria 8135
 cephradine derivative 9050
 cerexin C 9134
 cerexin D 9134
 cerulenin, *Staphylococcus aureus*, fatty acid
 6631
 chalcone 7347
 chalcone analogues 8071
 chalcones 7318
 chelocardin anilino derivatives 5726
 chicken feed 9627 9628
 chloramphenicol 6546
 chloramphenicol + amikacin, *Klebsiella* 4723
 chloramphenicol, anaerobic bacteria 9038
 chloramphenicol + gentamicin, *Klebsiella*
 4723
 chloramphenicol, *Haemophilus influenzae* 558
 8114
 chloramphenicol + hexamethylenetetramine
 2226
 chloramphenicol + kanamycin, *Klebsiella* 4723
 chloramphenicol, *Klebsiella* 4723
 chloramphenicol, *Pectobacterium carotovorum*,
 potato post-harvest decay 6324
 chloramphenicol, *Propionibacterium acnes*
 5630
 chloramphenicol, *Pseudomonas aeruginosa* 3748
 chloramphenicol, *Salmonella* 8163
 chloramphenicol, *Salmonella paratyphi* 559
 chloramphenicol, *Salmonella/Shigella* 7380
 chloramphenicol, *Salmonella typhi* 559
 chloramphenicol N-trifluoroacetyl analogues,
Escherichia coli 6601
 chloramphenicol, *Vibrio cholerae* 4729
 chlorbutol 6539
 chlorhexidine 6738 10152
 chlorhexidine gluconate 6539

Antibacterial agent(Contd).

chlorhexidine gluconate, skin antiseptic
 4908
 chlorhexidine toothpaste 5615
 chlorine compounds, canned food cooling water
 1780
 chlorocarcin A/chlorocarcin B/chlorocarcin C
 2263 2264
 chlorpromazine 8980
 chlorotetracycline, *Mycobacterium citreum*
 9110
 cholic acid derivatives 5564
 chuangxinmycin 10363
 cinnamanilide 7320
 cinnamyl phenols 532
 cinoxacin/nalidixic acid/oxolinic acid,
Shigella flexneri 4662
 cinoxacin/nalidixic acid/oxolinic acid,
Shigella sonnei 4662
 cinoxacin, *Salmonella/Shigella* 7380
 clindamycin 6546
 clindamycin, anaerobic bacteria 9038
 clindamycin, *Flavobacterium meningosepticum*
 4850
 clindamycin, *Propionibacterium acnes* 5630
 clindamycin, *Staphylococcus aureus* 5632
 clofibrate 7346
 cloflucaban, soap 4906
 clostocin O, *Clostridium*
saccharoperbutylacetonicum 3065 3066 3067
Clostridium perfringens lysin 7687
 cloxacillin + amoxycillin 8149
 Nalpha-cocoyl-L-arginine ethyl ester
 DL-2-pyrrolidone-5-carboxylic acid salt,
 plant protection 7986
 Coelastrium proboscideum, *Staphylococcus*
aureus 6494
 coformycin + formycin 1410
 colicin B-K260 5029
 colicin D-CA23 5029
 colicin E2 4042
 colicin K, *Escherichia coli* 6532 8179
 colistin 6546
 colistin + carbenicillin, *Pseudomonas*
aeruginosa 4726
 colistin derivatives 9102
 colistin + doxycycline, *Pseudomonas*
aeruginosa 4726
 colistin + gentamicin, *Pseudomonas aeruginosa*
 4726
 colistin, *Proteus* 4725 4727
 colistin, *Pseudomonas aeruginosa* 4726 4727
 condiments, *Vibrio parahaemolyticus*, seafood
 9588
 contact lens sterilising solution 1282 1283
 1284
 copper, intensive care unit 2347
 coral 8063
Corynebacterium minutissimum 1306
Corynebacterium parvum 1306
 crude drugs 3719
 crystalline cephalosporin derivative 4757
 cyclocillin 3028 3029
 cycloalkyl-4-oxoquinoline-3-carboxylic acid
 derivatives 2141
 cycloaminocarbodithioate
 2-(2-methyl)-5-nitro-1-imidazolyl)ethyl
 esters 1216
 cyclopiazonic acid 4265
 cystaurimycin 10332
 Dacrydium heartshake podocarpic acid 7234
 Dactylum dendroides antibiotic 2237
 damavaricin 634
 dazomet, *Salmonella*, poultry egg 733
 decamethoxin, *Staphylococcus aureus*,
 thermogenesis 2971
 dekamycin 8180
 dental plaque, hydroxyapatite-coated glass
 beads 2107
 deoxycholate, *Erwinia amylovora* 8064

Subject index

Antibacterial agent(Contd),

deoxycholic acid derivatives 5565
 2-deoxystreptamine-aminoglycoside derivatives 6559 6560
 deoxystreptamine derivatives 10256
 alpha-6-deoxytetracycline derivatives 10329
 derivatives, antibacterial agent 10254
 desferri-triacetyl-fusigen 10365
 2-deutero-3-fluoro-D-alanine 505 6505
 2,4-diacetylphloroglucinol 7442
 D-3,6-diaminohexanoic acid
 2-(carboxymethyl)-2-methylhydrazine 2151
 diaveridine 10149
 diaveridine-sulphadimethoxine 10149
 diaveridine-sulphaquinoxaline 10149
 diazine derivatives, plant protection 7223
 1,3-dichloroacetone oxime acetate +
 beta-bromo-beta-nitrostyrene, industrial
 water system 2320
 dichlorocyanurate silver complexes 10147
 dicloxacillin 3029
 dicloxacillin + ampicillin 8149
 dicloxacillin + penicillins 3030
 dicloxacillin, Propionibacterium acnes 5630
 dihalo-sulphonate derivatives, plant
 protection 7979
 dihalopyrrol di-/trihalomethyl ketones
 2943
 10,11-dihydropicromycin 4798
 dihydrostreptomycin, Escherichia coli
 ribosome 1320
 4,5-dihydro-tetrazolo(1,5-a)-quinoxaline
 derivatives, plant protection 9889
 dimethylaminoethyl-alpha-phenyl-cinnamate
 derivatives 6502
 dimethylol dimethylhydantoin 3903
 dimetridazole, Campylobacter coli 7324
 dimetridazole, Campylobacter fetus 7324
 diols/diol esters 10145
 1,3-dioxane-4,6-dione derivatives 9007
 Diplocadium elegans antibiotic 2237
 Diplococcus pneumoniae 3000
 disinfectant 6726 6727
 disinfectant, hospital 7510
 disinfectant testing 726
 disinfectants, dairy industry 6743
 disinfectants, Mycoplasma pneumoniae 10487
 disinfectants, Providencia stuartii 4654
 N-codicycloethanolamine, Escherichia coli
 3694
 doxycycline 5525
 doxycycline, bacterial ATP 5700
 doxycycline, calorimetry 5699
 doxycycline, Pseudomonas aeruginosa 4726
 doxycycline, Staphylococcus aureus 2105
 doxycycline, Vibrio cholerae 4729
 doxytetracycline, Escherichia coli 7313
 doxytetracycline, Klebsiella 7313
 doxytetracycline, Proteus 7313
 doxytetracycline, Staphylococcus aureus 7313
 doxytetracycline, Streptococcus group D 7313
 econazole 2974
 efrotomycin 4800 5731
 enanti-[1-valine]-malformin 3692
 enniatin 652
 Enterobacter cloacae 2993
 epi-bleomycins 5723
 epicillin derivative 9050
 epicillin, Salmonella paratyphi 559
 epicillin, Salmonella typhi 559
 equisetin 1416
 Erwinia chrysanthemi protein +
 lipopolysaccharide, Pseudomonas syringae,
 tobacco 3594
 erythromycin 6546
 cyclic-erythromycin A 6,9-hemiacetal
 carbonate L-aspartate 5688
 erythromycin A cyclic 11,12-carbonate
 L-aspartate 5687
 erythromycin A oxime esters 4777

Antibacterial agent(Contd),

erythromycin B oxime esters 4777
 erythromycin + cefamandole, Bacteroides
 fragilis 8129
 erythromycin + colistin, Surgical Simplex P
 Radiopaque bone cement 3011
 erythromycin D 8167
 erythromycin, Francisella tularensis 1305
 erythromycin, Propionibacterium acnes 5630
 erythromycin, Staphylococcus aureus 2223
 5632
 Escherichia coli 1304 2993 7366
 Escherichia coli, tetracyclines,
 microcalorimetry 2233
 ethambutol, Mycobacterium tuberculosis 4649
 ethanol 3128 6738
 ethyl picolinate, Bacillus cereus 8977
 ethylene oxide, Bacillus subtilis 538
 ethylene oxide sterilisation, Bacillus
 larvae, apiary 3738
 evernimonicin, Staphylococcus aureus 5632
 eye drop preservative, Pseudomonas aeruginosa
 5606
 eye drop preservative, Staphylococcus aureus
 5606
 ezomycins 626
 feldamycin 5734
 ficellomycin 5733
 flavanone derivatives 10186
 flavone 7347
 flavone derivatives 10186
 flavones 7318
 flucloxacillin 3031
 flucloxacillin + amoxycillin 3025 8149
 fluorinated cephalosporins 572
 3-fluoro-D-alanine 505
 N-fluorosulphonamide derivatives 2147
 5-fluorouracil, Escherichia coli 6503
 folic acid antagonists 10144
 food preservation 6811
 food preservative 5593
 formaldehyde 5523
 formalin, Xanthomonas fragariae, strawberry
 4417
 fortimicin A 8181
 fosfomycin 2259
 Freon-12, Escherichia coli 10139
 Freon-13, Escherichia coli 10139
 fructose 5593
 furancarabamic acid esters 2143
 furazolidone, Salmonella paratyphi 559
 furazolidone, Salmonella typhi 559
 furo[3,4-c]cephams 4759
 furoazepinone nitro-derivatives 4665
 garamine derivative 8182
 gardimycin 1418 1419 6638
 garlic 10143
 geldanamycin 7423
 Genetron-22, Escherichia coli 10139
 gentamicin 563 1319 2180 3758 4721 5684 7384
 7385 10260
 gentamicin 1-N acyl derivatives 5643
 gentamicin aminocyclitol analogues 6599
 gentamicin, anaerobiosis 6547
 gentamicin, antibiotic sensitivity testing,
 Pseudomonas aeruginosa 8116
 gentamicin + azlocillin 7383
 gentamicin B, Staphylococcus aureus 5632
 gentamicin C1 derivatives 2225
 gentamicin C1, Staphylococcus aureus 5632
 gentamicin C1a derivatives 5685
 gentamicin C1C2C1A, Staphylococcus aureus
 5632
 gentamicin C2 derivatives 617
 gentamicin C2a 10316
 gentamicin + carbenicillin 7383
 gentamicin + carbenicillin, Serratia
 marcescens 4743
 gentamicin + doxycycline, Pseudomonas
 aeruginosa 4726

Subject index

Antibacterial agent(Contd),

gentamicin, *Escherichia coli*, electron microscopy 4722
 gentamicin, *Klebsiella* 4723
 gentamicin + mezlocillin 7383
 gentamicin, *Neisseria gonorrhoeae* 5527
 gentamicin + prednisolone 1371
 gentamicin, *Propionibacterium acnes* 5630
 gentamicin, *Pseudomonas aeruginosa* 564 1321 4726
 gentamicin, *Serratia marcescens* 4743
 gentamicin/sisomicin/tobramycin 6562 6563 6564
 gentamicin, *Staphylococcus aureus* 2187
 gentamicin, *Streptococcus group B* 2188
 gentamicin/tobramycin 4740
 gentamicin/tobramycin/sisomicin/netilmicin 2186
 gentamicin, virus/*Chlamydia/Rickettsia* cell culture 611
 gentamicin, *Yersinia pseudotuberculosis* 4744
 gentamicins 9090
 gentamine derivatives 10315
 germicide, food industry 6742
 glutaraldehyde 6525
 glutaraldehyde, medical equipment disinfectant/sterilizer 9014
 glycine, *Rhizobium* 4592
 gramicidin A/gramicidin A analogues 4804
 gramicidin, *Bacillus brevis* RNA polymerase 7431
 beta-haemolytic *Streptococcus* 5633
Haemophilus influenzae bactericidal factor 6844
 halogenated N-thiazolyl substituted 2-mercapto benzoic acid amides 6511
 halogenated phenoxyphenol + phenoxy alcohol/phenalkyl alcohol 10156
 hand/skin hygiene 1517
 heat + gamma-irradiation, *Bacillus subtilis* 9012
 helenin 6531
 2-n-heptyl-4-quinolinol, marine *Pseudomonas* 6544
 herbicidin A/herbicidin B 5741
 hetacillin derivatives 1365
 hexachlorophene 6738
 hexachlorophene + povidone-iodine + ethanol, bronchofiberscope disinfection 5807
 hexachlorophene, soap 4906
 hexametaphosphate, cholate 7317
 hexamethylenetetramine + 3,4-dichlorobutene-1 1213
 hop oil emulsion, beer 5168
 hospital carpet 8248
 hydrazide derivatives 5557
 hydrocarbons, *Agrobacterium tumefaciens*, tomato 5437
 hydrogen peroxide, *Clostridium bifermentans* spores 2933
 hydrogen peroxide, culture medium sterilisation 8104
 hydrogen peroxide, *Escherichia coli*, catalase 2934
 hydroxamic acid 7326
 p-hydroxybenzoic acid ester silicon derivatives, fish stuffing preservation 5551
 9-hydroxyellipticine 1229
 8-hydroxyquinoline, laundry oil 3140
 hypocholesteremic agent 7346
 imidazole derivatives 2137 3684
 imidazolyl-alkyl-hydrogen monothiosulphate derivatives 1221
 indeno-pyridine derivatives 10161
 indole derivatives 8099
 iodine-containing compounds, dental plaque 10504
 iodine disinfectant 8253
 iodine + polyvinylpyrrolidone, seafood 967

Antibacterial agent(Contd),

iodophor 3921 6738
 iodopolymers 1258 1259
 ionophore A23187 8062
 isoniazid, *Mycobacterium tuberculosis* 4649
 isopropanol 6738
 isothiocyanate derivatives 3722
 isoxazolium derivatives, polarography 8975
 josamycin 640
 josamycin/rosamicin/erythromycin/clindamycin 2190
 juvenimicins 7433
 kanamycin 1319 7384 10260
 kanamycin E derivatives 6596
 kanamycin derivatives 3785
 kanamycin, *Escherichia coli*, electron microscopy 4722
 kanamycin, *Klebsiella* 4723
 kanamycin, *Pseudomonas aeruginosa* 564
 kanamycin, *Yersinia pseudotuberculosis* 4744
 kanendomycin 7425
 kasugamycin, *Escherichia coli*, R factor 10374
 kasugamycin guanidino derivatives 3808
Klebsiella 7368
Klebsiella pneumoniae 2993
 beta-lactam antibiotic 1310
 beta-lactam antibiotic, *Bacillus subtilis*, tolerance 2160
 beta-lactam antibiotic, *Streptococcus pneumoniae*, tolerance 2168
 beta-lactam antibiotic, *Streptococcus sanguis* 8126
 beta-lactam antibiotics 6553
 beta-lactam antibiotics, *Proteus* 9049
 beta-lactam antibiotics, *Pseudomonas aeruginosa* 4731
 Lactobacillus bacteriocins, *Lactobacillus* 9127
 lactoperoxidase, milk 2609
 lambdamycin 4808
 laterosporamine 2261
 leucomycin A1 4817
 leucomycin A3 4817
 levopromazine 8980
 levorin, *Staphylococcus aureus*, thermogenesis 6571
 libanamycin 7423
 lincomycin 6546 10318
 lipiarmycin 8186
 litmomylin 8187
 lividomycin 1319
 lividomycin A derivatives 6641
 lividomycin B derivatives 1422 6641
 long chain aliphatic monoamines, *Streptococcus faecalis* 3693
 lysozyme 5547
 macrolide antibiotics + protein SP127, *Pseudomonas aeruginosa* 8335
 macrolide antibiotics + protein SP 127, *Pseudomonas aeruginosa* 8334
 magnesidin 3810
 magnesidin-related tetracycline derivatives 8976
 malformin C 7068
 mazlocillin 5672
 mecillinam/6-aminopenicillanic acid/ampicillin 6583
 mecillinam, Enterobacteriaceae 4767
 mecillinam, *Escherichia coli* 3811 4768
 mecillinam + beta-lactam antibiotic 1366
 medermycin 4812
 mercapto-quinoxaline derivatives 504
 mercury, *Escherichia coli* 10586
 metacycline 5701
 methane, *Escherichia coli* 10139
 methicillin 7376
 methicillin, *Propionibacterium acnes* 5630
 methicillin, *Staphylococcus aureus* 1367 3032 5632

Subject index

Antibacterial agent(Contd),

methioninyl adenylate 4666
 1-methyl-2-nitro-5-vinylimidazole 8096 8097
 3-(1-methyl-5-nitro-2-imidazolyl-methylideneamino)-2-oxazolidinone, *Pasteurella/Yersinia* 2114
 9-methylaminoacridine derivatives 3691
 metronidazole, anaerobic bacteria 7323
 mezlocillin/azlocillin/carbenicillin, Bacteroidaceae 10288
 micronazole 2974
 Micromonospora viridifaciens antibiotic 37,504 10333
 microwave irradiation seed treatment, *Erwinia carotovora*, tobacco 9990
 milk 6811
 mimosamycin 2263 2264
 minocycline 2236
 minocycline, anaerobic bacteria 9038
 minocycline, *Escherichia coli* 1382
 minocycline, *Staphylococcus aureus* 2105
 minocycline, *Vibrio cholerae* 5702
 minocycline, *Vibrio parahaemolyticus* 5702
 minosaminomycin 10383
 mirex/mirex derivatives, estuarine bacteria 723
 monodansyl colistin 6606
 monoketo-organomycin 10332
 monomycin, *Salmonella typhi* 5682
 monomycin, *Yersinia pseudotuberculosis* 4744
 morpholino-N-acetohydrazide hydrazones 2152
 5-O-mycaminosyl narbonolide 7438
 mycoplasma-like organisms, witches' broom, dogwood 1928
 mycoplasma, plant disease 8826
 N-methyl-oligopeptides 535
 nafcillin + netilmicin, *Staphylococcus aureus* 10302
 nafcillin/oxacillin/methicillin + gentamicin/tobramycin, *Streptococcus* group D 5642
 nafcillin/oxacillin, *Staphylococcus aureus* 2223
 nafcillin, *Propionibacterium acnes* 5630
 nafcillin, *Staphylococcus aureus* 5632 10302
 nalidixic acid 6546
 nalidixic acid, *Escherichia coli* 4663
 nalidixic acid, *Proteus*, isolation medium 4664
 nalidixic acid, *Shigella sonnei* 8979
 N-1,8-naphthyridin-7-yl)methyleneamine derivatives 8967
 naphthyridine-3-carboxylic acid derivatives 8983
 naphthyridine derivatives 2945
 naphthyridinomycin, *Escherichia coli* 4814
 nebramycin 2265
 negamycin analogues 642 5749
Neisseria gonorrhoeae 2997
Neisseria meningitidis 4724
 neomycin B derivatives 10308
 neomycin C 10307
 neomycin C derivatives 10308
 neomycin, Coulter Counter 6595
 neomycin, *Yersinia pseudotuberculosis* 4744
 neotelomycin 10391
 neotelomycin derivatives, *Bacillus megaterium* 9144
 netilmicin 563 1319 1429 3814 5752 9145 10260
 netilmicin, antibiotic sensitivity testing 10392
 netilmicin +, carbenicillin/cefazolin/chloramphenicol/clindamycin 1428
 netilmicin + carbenicillin, *Serratia marcescens* 4743
 netilmicin/gentamicin 6644
 netilmicin/gentamicin/amikacin 4741
 netilmicin/gentamicin/tobramycin 10393

Antibacterial agent(Contd),

netilmicin/gentamicin/tobramycin/amikacin 5750
 netilmicin/gentamicin/tobramycin/amikacin, Enterobacteriaceae 2185
 netilmicin/gentamicin/tobramycin/amikacin, *Pseudomonas aeruginosa* 2185
 netilmicin/gentamicin/tobramycin/amikacin/sisomicin, Enterobacteriaceae 2184
 netilmicin/gentamicin/tobramycin/amikacin/sisomicin, *Pseudomonas aeruginosa* 2184
 netilmicin/gentamicin/tobramycin/kanamycin/amikacin 8130
 netilmicin/gentamicin/tobramycin/sisomicin 5751
 netilmicin + penicillin G, *Streptococcus* group D 5752
 netilmicin, *Pseudomonas aeruginosa* 1321
 netilmicin, *Serratia marcescens* 4743
 netilmicin/sisomicin 3815
 netilmicin, *Staphylococcus aureus* 10302
 niddamycin 4817
 nigericin 7423
 nisin, dairy industry 8540
 7-[2-(5-nitro-2-furyl)vinyl]-1,8-naphthyridine derivative 3685
 nitrofuranylpropenone derivatives 8974
 nitrofuranyl derivatives 1220
 nitrofurans 8097
 5-nitrofurylacrylic acid, wine 3359
 nitroimidazole derivatives 1270 2112 2113
 nitroimidazole-pyrimidine derivatives 4661
 nitroimidazoles 8097
 nitroimidazolyl-acetylpropenoic acid derivatives 2136
 nitroimidazolyl-pyrazole derivatives, animal feed 9625
 nitroperhydropyridodiazepine derivatives 2976
 4-nitrophenyl mercapto acetic acid hydrazide 7327
 nitrophenyl-sulfanilamidopyrazole derivatives 8070
 nitropyrrole derivatives 9004
 nitrostyrene derivatives 9010
 nitrothiazole derivatives 9005
 nitrous oxide, *Escherichia coli* 10139
 nocardine 7423
 nocardicin A 1434
 nocardicin B 7440
 nojirimycin 5734
 non-woven fibres 8040
 D-norvaline, *Rhizobium* 4592
 D-norvalyl-L-alanine, *Escherichia coli* 7328
 novobiocin 5543
 novobiocin, *Erwinia amylovora* 8064
 nyphimycin A1-scopafungin 644
 octapeptin antibiotics 7441
 oleandomycin, *Francisella tularensis* 1305
 3-O-oleandrosyl-5-O-desosaminylerythronolide A oxime 5690
 operating theatre 1512
 ormethoprim 10149
 ormethoprim-sulphadimethoxine 10149
 ormethoprim-sulphaquinoxaline 10149
 ornidazole, anaerobic bacteria 7323
 oxacillin + netilmicin, *Staphylococcus aureus* 10302
 oxacillin, *Propionibacterium acnes* 5630
 oxacillin + sisomicin, *Staphylococcus aureus* 10302
 oxacillin, *Staphylococcus aureus* 2187 5632 10302
 oxamicetin 3073
 oxazolidine derivatives 5553
 oxime esters 2148
 7-oxo-1,3-diazabicyclo[3.2.0]heptane-2-carboxylic acid 8121
 8-oxo-4-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid 8122

Subject Index

Antibacterial agent(Contd),

oxolinic acid 528 5563
 n-oxypyridyl thiol aluminium derivatives 749
 oxytetracycline, *Escherichia coli* 1382
 oxytetracycline, lethal yellowing disease,
 coconut palm, fruit 403
 oxytetracycline, lethal yellowing,
 mycoplasma-like organism, palm 8675
 oxytetracycline, *Neisseria gonorrhoeae* 5527
 Panaeolus antibiotics 6545
 paraldol 3721
 paromomycin derivatives 3784
 paromomycin, *Escherichia coli* ribosome 1320
 Parthenium hysterophorus extract 2932
 patulin, *Bacillus subtilis* 2633
 Pellicularia sasakii/Pellicularia filamentosa
 cell wall-lysing enzyme complex 4072
 penicillanic acid derivative 9078
 penicillanic acid derivative, *Escherichia*
 coli 4768
 penicillanic acid derivatives 554 595 596
 606 3040 4765 6591
 penicillin 9305 10286
 penicillin, *Bacillus megaterium*,
 penicillin-binding components 8148
 penicillin chloromethyl esters 597
 penicillin, *Corynebacterium*, cardamom 8831
 penicillin derivatives 594 1310 1311 1312
 1313 1314 1315 1316 1349 1351 1352 1353
 1354 1355 1356 1357 1358 3004 3006 3007
 3037 3038 3779 5638 5677 6554 6589 6590
 7405 7406 7407 7408 7409 8124 8125 8159
 8160 9048 9085 9087 10295 10296 10297 10298
 10299 10301
 penicillin *Escherichia coli* 1350
 penicillin esters 3002
 penicillin G 7376
 penicillin G, *Chlamydia trachomatis* 10294
 penicillin G derivatives 1363
 penicillin G + gentamicin, *Listeria*
 monocytogenes 5641
 penicillin G, *Propionibacterium acnes* 5630
 penicillin G seed treatment, *Bacillus*
 subtilis, soybean seed 8615
 penicillin G, *Streptococcus* group B 602
 penicillin, hop crinkle disease 7221
 penicillin, *Neisseria gonorrhoeae* 5527 9084
 penicillin + netilmicin, *Streptococcus* group
 D 10253
 penicillin phthalide esters 3039
 penicillin R-sulphoxides 4736 5637
 penicillin, sensitivity test broth/urine
 3009
 penicillin + sulphadiazine, *Streptococcus*
 mutans 603
 penicillins 553 593 1347 2174 2178 3005 3752
 3753 3777 6546 7411 9032
 penicillins aminoalkyl esters 2172
 penicillins, anaerobic bacteria 3010
 penicillins, *Bacillus megaterium* 2220
 penicillins, *Escherichia coli* 555
 penicillins, turbidimetry 8120
 Penicillium waksmani, *Bacillus* larvae,
 honeycomb 1212
 pentachlorophenol, water microorganisms 9220
 2-n-pentyl-4-quinolinol, marine *Pseudomonas*
 6544
 peptides 7329
 peracetic acid, pharmaceutical cream
 sterilisation 2979
 pesticide, estuarine water bacteria 4884
 phage/bacteriocin, plant protection 3593
 1,10-phenanthroline, hydrocarbon/industrial
 fluid 475
 1,10-phenanthroline + nalidixic
 acid/piromidic acid, *Escherichia coli* 10146
 phenethyl alcohol, *Bacillus cereus* 1218
 phenethyl alcohol, *Bacillus megaterium* 1218
 phenethyl alcohol, *Streptococcus faecalis*
 1218

Antibacterial agent(Contd),

phenethylamine polymers 10191
 phenoxacetamido-nitrothiazole derivatives
 2973
 9-phenoxyaminoacridine derivatives 3691
 2-phenyl-1,2,3-triazole-4-carboxylic acid
 hydrazide 7327
 2-phenyl-1,2,3-triazole-4-carboxylic
 acid-sulphonyl hydrazide 7327
 phenyl-indole derivatives 6530
 phenylazoxycyanide derivatives 9002
 phenylenediamine derivatives, plant
 protection 8835
 phenylethanol, *Pseudomonas aeruginosa*,
 benzalkonium chloride, electron microscopy
 6496
 phenylglycyl-cephalosporin derivatives 9066
 9067
 phenylglycylcephalosporins 576
 3-phenylisoquinoline 6529
 phosphomycin + streptomycin/penicillin
 G/ampicillin 6558
 phosphoramidate, industrial water system
 3125
 phosphoramidate, oil recovery system 3125
 phosphoramidate, water system 3125
 phylloplane bacteria, *Drechslera dictyoides*,
 perennial ryegrass 7889
 piperazine derivatives 2110
 piperazinoethyl-dihydroindolo-benzazepine
 derivatives 2948
 piperazinyloxyprido-pyrimidine derivatives
 2946
 piperidino-N-acetohydrazide hydrazones 2152
 pirbenicillin + gentamicin, *Pseudomonas*
 aeruginosa 6556
 pirbenicillin, *Pseudomonas aeruginosa* 6556
 pirbenicillin/ticarcillin/carbenicillin,
 Pseudomonas aeruginosa 5674
 pivampicillin 1368
 plant essential oil 5548
 plant extracts 10141 10166
 plants 6523
 platomycin A/platomycin B 9148
 pleuromutilin derivatives 5755 5756 10400
 plumbagin 2109
 polychlorinated biphenyls, estuarine bacteria
 724
 polyethoxyalkyl phenols, *Staphylococcus*
 aureus 10154
 polyethoxyalkyl phenols, *Staphylococcus*
 aureus, optical density 10155
 polymeric biguanide, plant protection 405
 polymyxin 6546
 polymyxin B 7415
 polymyxin B + carbenicillin, *Pseudomonas*
 aeruginosa 4726
 polymyxin B derivatives 9102
 polymyxin B + doxycycline, *Pseudomonas*
 aeruginosa 4726
 polymyxin B + gentamicin, *Pseudomonas*
 aeruginosa 4726
 polymyxin B, *Proteus* 4725 4727
 polymyxin B, *Pseudomonas aeruginosa* 3748
 4726 4727
 polymyxin B, *Serratia marcescens* 10323
 polymyxin E, *Serratia marcescens* outer
 membrane phosphatase 9103
 polymyxin B, *Serratia marcescens*
 polysaccharide 5692
 polymyxin B, *Shigella dysenteriae* 10120
 polymyxin B, *Vibrio cholerae*/*Vibrio cholerae*
 phosphatidylethanolamine 3048
 polymyxin, *Francisella tularensis* 1305
 polymyxin M, *Shigella dysenteriae* 10120
 polymyxin S1 10324
 polymyxin T1 10324
 polymyxins, *Acinetobacter* 4779
 polymyxins, *Proteus* 4727
 polymyxins, *Pseudomonas aeruginosa* 4727

Subject index

Antibacterial agent(Contd),

polysorbate 80, *Pseudomonas aeruginosa*, benzalkonium chloride, electron microscopy 6496
 povidone iodine 2935
 prodigiosin 1188
 proflavine, *Escherichia coli* pyruvate kinase 10163
 promethazine 8980
Propionibacterium acnes 1306
Propionibacterium avidur 1306
Propionibacterium granulosum 1306
 propyl gallate 5592
 proteocines 2441
Proteus 1304 2993 7368
 Providencia 2993
 pseudodisaccharide derivatives 2115
Pseudomonas aeruginosa 1304 2993 6550 7368
Pseudomonas mors-prunorum, stone fruit trees 9958
Pseudomonas phaseolicola, bean 6376
Pseudomonas pseudomallei 8117
Pseudomonas syringae, pear 882^a
Pseudomonas syringae, stone fruit trees 9958
Pseudomonas tolaasii, mushroom 2025
 pseudotrisaccharide derivatives 2115
 pteridine 1224
 purine derivatives 7325
 purpuromycin 10402
 pyocin P1 7447
 pyocin, *Pseudomonas aeruginosa*, antibiotics 8191
 pyrano-indole derivatives 7349
 pyrazole derivatives 499 1222 5557 5559
 pyridazine-2-oxide derivatives 3932
 pyrimidine derivatives 502 7325
 pyrrole-2-carboxamide derivatives 3139
 pyrrolidine derivatives 9006
 quaternary ammonium compound 2949 3905
 quaternary ammonium compound, industrial water system 3890
 quaternary ammonium compound, water/wastewater disinfection 8239
 quaternary ammonium compounds 1535 2145 2146 2319 5802
 quaternary ammonium phenolate, paper 2907
 quaternary ammonium salt 470
 p-quinol 2981
 quinoline-3-carboxylic acid derivatives 3688
 quinoline derivatives 2140
 quinolizine-2-carboxylic acid derivatives 4694
 quinolizine derivatives 8100
 quinoxaline-1,4-dioxide derivatives 3689
 quinoxaline-2-carboxamide-1,4-dioxide derivatives 8982
 quinoxaline derivatives 5598
 rancinamycin I/rancinamycin II/rancinamycin III/rancinamycin IV 5759
 resistance, bacteria 1193 1194 1198 4630 5877
 resistance, bacteria, R factor 1195 1196 1197
 rhizopin 1438
 ribofuranosyl-1,2,3-triazole derivatives 3727
 rifampicin 6546 9100
 rifampicin, *Brucella* 2229
 rifampicin, *Mycobacterium tuberculosis* 4649
 rifampicin, *Staphylococcus aureus*, electron microscopy 9099
 rifampin 8113
 rifamycin derivatives 4773
 rifamycin SV derivatives 10320
 ristocetin A 3817
 ristocetin B 3817
 ristomycin 3817
 rosamicin, *Haemophilus influenzae* 10405
 rosamicin monoesters 5760
 rosamicin, *Neisseria gonorrhoeae* 10405
 rosamicin, *Neisseria meningitidis* 10405

Antibacterial agent(Contd),

rosamicin, *Staphylococcus aureus* 5632
 rosemary spice extractive, meat 6126
 S-alkylthiuronium halides 6527
 salicylic acid/salicylic acid + tetamethasone dipropionate 10190
 N-salicylsulphonyl amino acid derivatives 3683
Salmonella 8949
Salmonella enteritidis 2993
 samarosporin 4824
 sanitizer, beef 7767
 seed treatment, *Pseudomonas phaseolicola*, bean 6379
 seed treatment, *Xanthomonas campestris*, Brussels sprout 8830
 seldomycins 9149
 sensitivity testing, *Bacteroides fragilis* 2166
Serratia marcescens 2993
 Shigella + *Candida albicans* 5611
 Siberian fir soft resin 8094
 silicoorganic amines 530
 silver nitrate 2937
 sisomicin 1319 2189 3758 4625 6649 6651 6652 7384 7385 10260 10406
 sisomicin 1-N acyl derivatives 5643
 sisomicin + azlocillin 7383
 sisomicin + carbenicillin 7383
 sisomicin + cefazolin, *Klebsiella* 7381
 sisomicin/gentamicin 3757 7387
 sisomicin/gentamicin/tobramycin 7386
 sisomicin + beta-Lactam antibiotic 7382
 sisomicin + mezlocillin 7383
 sisomicin + nafcillin, *Staphylococcus aureus* 10302
 sisomicin, protein binding 7452
 sisomicin, *Pseudomonas aeruginosa* 1321
 sisomicin, *Staphylococcus aureus* 5632 10302
 skin 10646
 soap 2342
 sodium chloride, cholate 7317
 sodium dodecyl sulphate, *Erwinia amylovora* 8064
 soft N-chloramine derivatives 5594
 soft contact lens soaking solution, *Pseudomonas aeruginosa*/*Pseudomonas cepacia* 4912
 soluble silver, *Thiobacillus ferrooxidans* 2903
 sorbistin 7453
 sorbistin derivatives 9153
 spectinomycin 8113 9154
 spice/spice oil, *Vibrio parahaemolyticus* 1763
 6-spirocycloalkylamino 5-nitropyrimidine derivatives 2947
 sporamycin 6940 8420
 sporidical test 765 766
 staphylococin 5911
Staphylococcus 1304 1309 7368
Staphylococcus aureus 1214 3000 10257
Staphylococcus aureus, intermediate moisture food 1782
 steffimycinone/7-deoxysteffermycinone 8193
 streptomycin derivatives 1441 10255
 Streptococcus 3751 7368
 Streptococcus faecalis 3003
 Streptococcus group A L-form streptococci 4046
 Streptococcus group D 7368
 Streptococcus group D enterococci, food 2559
 Streptococcus mutans 552
 Streptococcus pyogenes 3000
 Streptococcus salivarius/Streptococcus faecalis, *Mycobacterium tuberculosis*, culture medium 3988
 streptogramin A 8194
 streptogramin B 8194
 streptomycin A 5763

Subject index

Antibacterial agent(Contd),

Streptomyces antibiotics 9025
 Streptomyces candidus spore-lytic enzyme 5097
 Streptomyces beta-lactamase inhibitor 3347
 Streptomyces orientalis 3082
 Streptomyces showdoensis 5745
 streptomycin 10257
 streptomycin, Actinomyces levoris, levorin 10306
 streptomycin, Actinomyces nodosus, amphotericin B 10306
 streptomycin, Erwinia amylovora, apple 2028 2822
 streptomycin, Erwinia amylovora, pear 2822
 streptomycin, Lipids 9053
 streptomycin, Neisseria gonorrhoeae 5527
 streptomycin, Pectobacterium carotovorum, potato post-harvest decay 6324
 streptomycin, Pseudomonas aeruginosa 3748 3782
 streptomycin, Yersinia pseudotuberculosis 4744
 streptonigrin-transition metal complex 9465
 streptovaricin isomers 1443
 striatins 9155
 substituted sulphonylacetamido cephalosporins 2204 2205 2206
 sugars/sugar alcohols 5593
 sulphacytine 528
 sulphadiazine derivatives 6498
 sulphadiazine, Pseudomonas aeruginosa 10151
 sulphadimethoxine 10149
 sulphadimidine, Pseudomonas aeruginosa 10151
 sulphafurazole + polymyxins, Proteus 4725
 sulphafurazole, Proteus 4725
 sulphamethoxazole, Neisseria gonorrhoeae 5527 5973
 sulphamethoxazole, Pseudomonas aeruginosa 10151
 sulphamethoxazole-trimethoprim 528 2940 2941 4659 5526 5550 7319 8113
 sulphamethoxazole-trimethoprim, Haemophilus influenzae 8114
 sulphamethoxazole-trimethoprim, Neisseria gonorrhoeae 8973
 sulphamethoxazole-trimethoprim + polymyxins, Proteus 4727
 sulphamethoxazole-trimethoprim + polymyxins, Pseudomonas aeruginosa 4727
 sulphamethoxazole-trimethoprim, Proteus 4727
 sulphamethoxazole-trimethoprim, Pseudomonas aeruginosa 4727 10151
 sulphamethoxazole-trimethoprim, Yersinia enterocolitica 6551
 sulphamethoxypyrazine 10150
 sulphamethoxypyrazine, Neisseria meningitidis 9042
 sulphamethoxyprazine-trimethoprim 10150
 sulphamoxole + trimethoprim 498 2940
 sulphanilamide derivatives 6498
 sulphanilamide-metal complexes 10148
 sulphaquinoxaline 10149
 sulphaquinoxaline-sulphadimethoxine/ormethoprim/diaveridine 10149
 sulphisoxazole, Chlamydia trachomatis 10242
 sulphonamide 6546 8972
 sulphonamide derivatives 6528
 sulphonamide pyrazole derivatives 6500
 sulphonamide sensitivity testing 6497
 sulphonamide sensitivity testing, Neisseria meningitidis 6457
 sulphonamide-trimethoprim, Neisseria meningitidis 4724
 sulphonylamino acid derivatives 6499
 sulphonylhydrazide derivatives 5557
 synergy, microdilution transfer plate technique 5627
 taurolin 4667
 teat dip 5808

Antibacterial agent(Contd),

teat dip/sanitizer, Mycoplasma agalactiae 735
 tellurite/tellurate, resistance, Escherichia coli 3668
 tellurite/tellurate, resistance, Pseudomonas aeruginosa 3668
 terizidon 650 5555
 testing 4018
 tetracycline 5525
 tetracycline, Bacillus subtilis, DNA 5698
 tetracycline, calorimetry 5699
 tetracycline, citrus greening 9986
 tetracycline derivatives 622 2235
 tetracycline, Escherichia coli 7313
 tetracycline, Escherichia coli, DNA 5698
 tetracycline, Haemophilus influenzae 8114
 tetracycline, hop crinkle disease 7221
 tetracycline, Klebsiella 7313
 tetracycline, little leaf, brinjal 8829
 tetracycline, membrane filter, beer yeast 1702
 tetracycline, Propionibacterium acnes 5630
 tetracycline, Proteus 7313
 tetracycline, Pseudomonas aeruginosa 3748
 tetracycline, Staphylococcus aureus 2105 7313
 tetracycline, Staphylococcus aureus/Escherichia coli 621
 tetracycline, Streptococcus group D 7313
 tetracycline, Vibrio cholerae 4729
 tetracyclines 6546 7419
 tetracyclines, Brucella 7420
 tetracyclines, Escherichia coli 3054 8172
 tetracyclines, Kainkope disease, coconut palm 2821
 tetracyclines, membrane filtration 9108
 tetradexoyneamine 3042
 tetrahydro-cyclopropa(b)naphthalenes 4692
 tetrahydrocarbazole derivatives 10162
 tetrahydrofuranlyl bromoacetate derivatives 533
 Thalictrum rugosum alkaloid 2144
 thallium 4685
 theophylline, Staphylococcus aureus 10160
 thiamphenicol/chloramphenicol, anaerobic bacteria 9056
 thiazolo(5,4-f)quinoline-8-carboxylic acid derivatives 1273
 thienamycin 651
 thienoazepinone nitro-derivatives 4665
 thienopyridine-carboxylic acid derivatives 503 2944
 thio-beta-lactam cephalosporins 5666
 thio-beta-lactam penicillins 5679
 thiocillin I/thiocillin II/thiocillin III 2270
 thiolactic acid derivatives 3723
 thiomersal 6539
 thionosalicylic acid anilide derivatives 3726
 thiopeptin 2271
 thiosulphonate 4690
 4-thiouracil 6653
 thiourea derivatives 3933
 tizezonium 9008
 ticarcillin 6157
 ticarcillin/antibiotic BL-P1654/carbenicillin 605
 ticarcillin/cefotaxime/carbenicillin/cephalothin/penicillin/metronidazole/clindamycinamycin/chloramphenicol, anaerobic bacteria 7375
 ticarcillin, sensitivity test broth/urine 3009
 ticarcillin + tobramycin 9052
 tinidazole, anaerobic bacteria 7323
 tirandamycin 2272
 tirandamycin B 2273
 tobramycin 528 563 1319 2189 3078 3758 4826

Subject index

Antibacterial agent(Contd),

tobramycin 4827 6484 6654 6656 6658 6659
6660 6661 7384 7385 7425 10260
tobramycin, anaerobiosis 6547
tobramycin, antibiotic sensitivity testing,
Pseudomonas aeruginosa 8116
tobramycin/carbenicillin/gentamicin,
Pseudomonas aeruginosa 6657
tobramycin/gentamicin/kanamycin/colistin/carb
enicillin/ticarcillin, Pseudomonas
aeruginosa 6666
tobramycin, Propionibacterium acnes 5630
tobramycin, Pseudomonas aeruginosa 1321 8195
tobramycin, Staphylococcus aureus 5632
toilet bowl cleanser 6730 6731
torato sauce, Vibrio parahaemolyticus 1763
2,4,6-triacetylphloroglucinol 7442
triazine derivatives 3728
triazine derivatives, plant protection 3728
s-triazinyl aryl/alkyl sulphones 1215
triazolo-pyridazine derivatives 117
s-triazolo-quinoline derivatives, plant
protection 404
Tribrissen (sulphadiazine + Trimethoprim)
2939
trichlorin A 10410
triclocarban, soap 4906
triclosan, soap 4906
trimethoprim 6501 4546 10149 10150
trimethoprim, Neisseria gonorrhoeae 8973
trimethoprim, Pseudomonas aeruginosa 10151
trimethoprim-sulphadimethoxine 10149
trimethoprim-sulphamethoxazole 4658
trimethoprim + sulphamide, Salmonella 3669
trimethoprim-sulphaquinolaxline 10149
trimethoxybenzoylamino acid derivatives 8095
tubaic acid 3682
turimycin 9158
tylosin, Treponema hyodysenteriae 495
ureidoacetamido-penicillin derivatives 8161
beta-ursolic acid 6532
usnic acid, Staphylococcus 1228
usnic acid, Streptococcus 1228
enantiom-[L-valine]malformin 4655
valinomycin 652
vancomycin 3817 6546
vancomycin, Propionibacterium acnes 5630
verdamycin 1-N acyl derivatives 5643
verdamycin 1 + sisomicin + antibiotic G-418 +
gentamicin A complex 562
verdamycin, Staphylococcus aureus 5632
veterinary topical products 2970
vinylglycolate 10237
viomycin 1445
viomycin, Escherichia coli ribosome 1444
virginiamycin 2275
virginiamycin S derivatives 10413
virginiamycin, Treponema hyodysenteriae 495
vitamin B3 10167
Xanthomonas juglandis, walnut 2050
Xanthomonas malvacearum, cotton 3595
Xanthomonas nigromaculans, Zinnia 340
Xanthomonas phaseoli, bean 4522
Xanthomonas pruni, stone fruit trees 9958
xylenol derivative, antiseptic 10488
xylostasin 654
zinc, Escherichia coli 10086

Antibacterial agent/antifungal agent,

epsilon-caprolactam + N-alkylalkylene diamine
reaction product 3126

Antibacterial sensitivity,

dip-slide, urine bacteria 2931

Antibacterial sensitivity testing,

3164

Antibiotic,

Actinomyces 5622
Actinomyces werraensis 10223
air sterilisation 2158

Antibiotic(Contd),

Alteromonas luteo-violaceus, antibacterial
agent 3055
Alteromonas rubra 3796
antitumour 5122
Aspergillus chevalieri 3797
Bacillus subtilis, antibacterial
agent/antifungal agent, Bacillus subtilis,
antibiotic, antibacterial agent/antifungal
agent 9028
Bacillus uniflagellatus, plant growth
stimulant 8307
culture, mathematical model 2986
cytotoxic 5122
Dactylium dendroides, antifungal
agent/antibacterial agent 2237
Diplocadium elegans, antifungal
agent/antibacterial agent 2237
isolation medium, tetracycline resistant
Vibrio cholerae 1209
Lyophilisation, rapid freezing apparatus 540
microbial degradation 3363
microorganisms, culture apparatus 1539
Phialophora cinereus, antifungal agent
10395
Physarum gyrosum, culture medium 2238
residues, meat, dialysis test 1747
residues, milk 1724
residues, milk, thin-layer chromatography
1722
resistance, coliform, R factor, sewage
treatment 2305
resistance, coliforms, sewage 6473
resistance, Pseudomonas 2097
resistance, Rhizobium 2944
Rhodospseudomonas sphaeroides 5621
wastewater, treatment, antifoaming agent 692
Antibiotic 19 402 R.P.,
Streptomyces peruviansis, antibacterial agent
3798
Antibiotic 20,798 R.P.,
daunorubicin reduction 9457
Antibiotic 27,706 RP,
antitumour antibiotic 4125
Antibiotic 37,504,
Micromonospora viridifaciens, antibacterial
agent 10333
Antibiotic 41,012,
Actinoplanes nipponensis, antibacterial agent
10334
Antibiotic 66-40B,
Micromonospora inyoensis, antibacterial agent
10335
Antibiotic 66-40C,
Micromonospora inyoensis 10336
Antibiotic 66-40D,
Micromonospora inyoensis, antibacterial
agent/antiviral agent 10335
Antibiotic 136,
yeasts 2170
Antibiotic 1745A/X,
Streptomyces antibioticus, antibacterial
agent 10337
Antibiotic 1998,
Bacillus brevis, antibacterial agent 3057
Antibiotic 333-25,
Bacillus circulans 1387 1388
Antibiotic 339-29,
Bacillus pumilus, antibacterial agent 5704
Antibiotic 342-14-T,
Bacillus brevis, antibacterial agent 4787
Antibiotic 70591,
Micromonospora floridensis, antibacterial
agent/antifungal agent 1389
Antibiotic 792,
Actinomyces bottropensis, antitumour
antibiotic/antibacterial agent/antifungal
agent 9114

Subject index

- Antibiotic A16884,**
Streptomyces lipmanii, antibacterial agent/antifungal agent 6619
- Antibiotic A2041,**
derivatives, antibacterial agent/animal feed 200
- Antibiotic A204A,**
numbering system 1384
- Antibiotic A2041,**
derivatives 10338
- Antibiotic A228,**
yeasts 2170
- Antibiotic A2315A,**
Actinoplanes philippinensis, structure 9115
- Antibiotic A23187,**
Streptomyces chartreusis, antibacterial agent/antifungal agent 2239
structure 2240
- Antibiotic A30641,**
Aspergillus tamarii, antibacterial agent/antifungal agent 2241
- Antibiotic A432,**
yeasts 2170
- Antibiotic A-7,**
Streptomyces, antifungal agent 7426 9113
- Antibiotic A-128-hyp,**
structure 6618
- Antibiotic A-2315,**
Actinoplanes philippinensis, antibacterial agent/antifungal agent 3799
Actinoplanes philippinensis, antibacterial agent/fungicide 623
- Antibiotic A-26771,**
Penicillium turbatum, antibacterial agent/antifungal agent/antiviral agent 1390
- Antibiotic A-30641,**
Aspergillus tamarii, antibacterial agent/antifungal agent 10339
- Antibiotic A-32390,**
Pyrenochaeta, antibacterial agent/antifungal agent 10340 10341
- Antibiotic A-4696,**
Actinoplanes, antibacterial agent/animal feed 624
- Antibiotic AB-74,**
Streptomyces aquacanus 1391 1392
- Antibiotic AS-H-23A,**
Streptomyces flavohelwanensis, antibacterial agent 9116
- Antibiotic ASK-753,**
Bacillus subtilis 1393
- Antibiotic ASN-136,**
10332
- Antibiotic AV290,**
alkylated derivatives, Streptomyces candidus, antibacterial agent 1394
Streptomyces candidus, animal feed 201 3800
- Antibiotic B371,**
Pseudomonas, antibacterial agent/antifungal agent 5706
- Antibiotic B-41,**
Streptomyces 3801
Streptomyces, insecticide/acaricide 625
- Antibiotic B-43,**
Bacillus circulans, antibacterial agent 5705
- Antibiotic BL-P1654,**
antibacterial agent 605
- Antibiotic BLP 1654,**
anaerobic bacteria 2994
- Antibiotic BM 123,**
Nocardia, antibacterial agent 3058
- Antibiotic Bu-1880,**
7441
- Antibiotic DE-3936,**
Streptomyces hygroscopicus, antibacterial agent 2242
- Antibiotic EM49,**
7441
antibacterial agent 4788
- Antibiotic EM 49,**
antibiotic 333-25, Bacillus circulans 1387 1288
Bacillus circulans, tetraminino derivatives, antibacterial agent/antifungal agent 5707
- Antibiotic F-1028,**
fungicide/bactericide, plant protection 1395 1396
- Antibiotic FR10612,**
antibacterial agent 2187
- Antibiotic FR-1923,**
Streptomyces 3802
- Antibiotic G-52,**
Micromonospora zionensis 1297
Micromonospora zionensis, antibacterial agent 1398 10342
Micromonospora zionensis, structure 1395
- Antibiotic G-418,**
antibiotic complex, Micromonospora grisea, antibacterial agent 562
Micromonospora rhodrangea, antibacterial agent 1400
- Antibiotic H 537SY2,**
Streptomyces yokosukanensis, antifungal agent 5708
- Antibiotic J1-20A,**
615
Micromonospora purpurea, antibacterial agent 10343
- Antibiotic J1-20B,**
Micromonospora purpurea, antibacterial agent 10343
- Antibiotic K13,**
Streptovorticillium quilensis 7256
Streptovorticillium quilensis, soil 5709
- Antibiotic K-52A,**
Streptovorticillium roseovorticillatum, antibacterial agent 3059
- Antibiotic KM-214,**
Bacillus aurantinus, antibacterial agent 2243
- Antibiotic LL-AM31,**
Streptovorticillium 10344
- Antibiotic LL-BM408,**
Streptomyces, antibacterial agent 10311
- Antibiotic No. K-73,**
Streptomyces tanashiensis, antibacterial agent 3803
- Antibiotic NRC-501,**
Streptomyces, antibacterial agent 3060
- Antibiotic ointment,**
sterility testing 1294
- Antibiotic OS-1804,**
Streptomyces michiganensis, antibacterial agent/antifungal agent 10345
- Antibiotic OS-3256-B,**
Streptomyces candidus, antitumour antibiotic/antibacterial agent 9456
- Antibiotic P-3355,**
Streptomyces amylovorus, antibacterial agent 2244
- Antibiotic PSX-1,**
Penicillium stiptatum, antitumour antibiotic 5996
- Antibiotic S15-1,**
Streptomyces purpeofuscus, antiviral agent 1401
- Antibiotic S15-1-A,**
racemomycin A/streptothricin F 5757
- Antibiotic S15-1-B,**
racemomycin C/streptothricin E 5757
- Antibiotic Sch 2656,**
antibacterial agent 563
- Antibiotic sensitivity test,**
Bacteroides fragilis 2996
standardization 2989
- Antibiotic sensitivity testing,**
550 1298 1299 1616 3164 4713 4714 4717 5625 8111 9034 9035 10228 10234
amikacin, Pseudomonas aeruginosa 8116

Subject index

Antibiotic sensitivity testing(Contd),

aminoglycoside antibiotics,
 Enterobacteriaceae 10259
 amphotericin B, medium 2232
 ampicillin, bacterial ATP 8154
 ampicillin, Haemophilus influenzae 10292
 anaerobic bacteria 2165 10232
 anaerobic bacteria, culture medium 6764
 anaerobic bacteria, medium 4716
 anaerobic bacteria, Wilkins-Chalgren medium 10229
 Autobac 1, bacteria 10539
 Autobac 1 system 7367
 automatic zone analyser 1300
 bacteria 9036 10233
 bacteria/fungi, medium 4715
 bacterial 10239 10240
 Bacteroides fragilis 2166
 carbenicillin, Pseudomonas aeruginosa 8116
 cefamandole, anaerobiosis 6547
 cefazolin, anaerobiosis 6547
 cephalothin, anaerobiosis 6547
 Citrobacter freundii/Citrobacter diversus 7370
 computer 7366 10508
 dip-slide, urine bacteria 2931
 doxycycline, bacterial ATP 5700
 electrical impedance 10230
 Enterobacteriaceae 4720
 erythromycin, Micrococcus luteus 8112
 Escherichia coli 1301
 gentamicin, anaerobiosis 6547
 gentamicin, Pseudomonas aeruginosa 8116
 kanamycin, Bacteroides fragilis 10553
 mastitis bacteria 10116
 medium 10231
 methicillin, Staphylococcus aureus, resistance 10124
 Mycobacterium tuberculosis, radiometry 9041
 netilmicin 10192
 oleandomycin, Micrococcus luteus 8112
 Pseudomonas aeruginosa 4720
 Pseudomonas aeruginosa, culture medium 6549
 replicate stamp 10226
 spiramycin, Micrococcus luteus 8112
 Staphylococcus aureus 1301
 streptomycin, Micrococcus luteus 8112
 tobramycin, anaerobiosis 6547
 tobramycin, Pseudomonas aeruginosa 8116
 Ureaplasma urealyticum 5626
 urinary tract bacteria 4718

Antibiotic SF-837, 3061

Antibiotic SL 7810,
 echinocandin B, structure 4799

Antibiotic SPA-S-222,
 Candida 6620
 Cryptococcus 6620

Antibiotic susceptibility testing,

amphotericin B, antifungal agent, radiometry 5694
 ampicillin, Haemophilus influenzae 7412
 Antibiotic TA,
 Myxococcus xanthus, antibacterial agent/antifungal agent 6621

Antibiotic TM-481,
 Streptomyces ribosidificus, antibacterial agent 626

Antibiotic U-43120,
 Streptomyces paulus 1402
 Streptomyces paulus, antibacterial agent/antitumour antibiotic 4126

Antibiotic U-48266,
 Streptomyces ficellus, antibacterial agent 4789

Antibiotic WS-4545,
 acyl derivatives, antibacterial agent 10346

Antibiotic X-372A,
 Streptomyces species 372A 1403

Antibiotic X-537A,
 + biogenic amines, complexation constants, fluorimetry 8185
 derivatives, antibacterial agent 627

Antibiotic XK-88-1,
 structure 9151

Antibiotic XK-88-2,
 structure 9151

Antibiotic XK-88-3,
 structure 9151

Antibiotic XK-88-5,
 structure 9152

Antibiotic XK-90,
 Streptomyces, antibacterial agent 5710

structure 9117
 Antibiotic Y-8495,
 7441

Antibiotics,
 794 2407 3214 5164 5624 9501

+ amikacin 4794
 Actinomadura coeruleoviolacea 5618
 Actinomyces 4786
 Actinomyces israelii 7369
 Actinomyces roseoflavus 5620
 Actinomycetes 10235
 alpha-haemolytic Streptococcus 4728
 anaerobic bacteria 2994
 animal feed 6102
 animal feed, assay 9033
 animal feed, high voltage electrophoresis 9626
 antibacterial agent 5624 5874 6546 8949
 10221 10234 10237 10241
 antibacterial agent, N-acetylcysteine 10238
 antibacterial agent/resistance 1302
 antiviral agent, plant protection 9983
 Arachnia propionica 7369
 assay 9033 10227
 assay, Bacillus stearothermophilus 4719
 assay, bacterial ATP-firefly luminescence 10225
 Bacillus 9054
 Bacillus cereus 9037
 bacitracin 9033
 bacterial electrical polarisability 7365
 bacterial metabolism, radiometry 3166
 bactericide 494
 bacteriostat 494
 bambamycin 9033
 bile system microflora 2995
 Botrytis cinerea 4669
 chicken feed 9627 9628
 chicken feed, residues 7783
 chloramphenicol 9033
 chlortetracycline 9033
 Clostridium 4721
 Clostridium perfringens 5628 7371
 computer 8110
 Corynebacterium minutissimum 1306
 Corynebacterium parvum 1306
 Diplococcus pneumoniae 3000 4721
 Enterobacter 6557 6565
 Enterobacter cloacae 2993
 enterobacteria 9040
 Enterobacteriaceae 6557 6565
 erythromycin 9033
 Escherichia coli 2993 3671 6557 6565 7368
 eye drop, preservative, Pseudomonas aeruginosa 5606
 eye drop, preservative, Staphylococcus aureus 5606
 fermentation 7692 9500 9501 10222
 flocculant 2987
 Fungi Imperfecti, antibacterial agent/antifungal agent/antiprotozoal agent/antiviral agent 5617
 Fusarium solani 10247
 Fusobacterium necrophorum 10243
 Haemophilus parainfluenzae 8115
 intravenous solution, quality control 6542

Subject index

Antibiotics (Contd),

Klebsiella 4721 7368
 Klebsiella pneumoniae 2993 6557 6565
 lincomycin 9033
 lipid/oil 6543
 Listeria monocytogenes 5629
 marine Pseudomonas 6544
 marsh bacteria 3056
 mastitic milk fermentation, cattle feed 4229
 melanin 1303
 membrane filtration 9029
 microbial, zero gravity 4031
 microorganisms, genetic recombination 10513
 microorganisms, photometry 6759
 milk 1723 7731
 milk, assay, *Sarcina lutea* 8479
 milk, assay, *Sarcina lutea*/*Bacillus subtilis* 5206
 minibag/minibottle admixtures, stability 9030
 mixture, microbiological assay 2990
 monensin 9033
 mycelium waste detoxification 3746
 Mycobacterium fortuitum 10131
 mycoplasma, witches' broom, *Angelonia salicariaefolia* 3500
 mycorrhiza, *Phytophthora cinnamomi*, pine 8850
Neisseria gonorrhoeae 2997
Neisseria meningitidis 4724 9042
 neomycin 9033
 nucleoside-related, microbial 3217
 nystatin 9033
 oat seed treatment 10236
 oleandomycin 9033
 organic solvents, gas chromatography 2164
 oxytetracycline 9033
 Panaeolus, antibacterial agent/antifungal agent 6545
Pasteurella haemolytica 3747
Pasteurella multocida 3747 6548
 Penicillium, Rhizoctonia, sugarbeet 4499
 phytopathogenic bacteria/fungi, plant protection 7222
Phytophthora parasitica, Piper betle 9970
Propionibacterium acnes 1306
Propionibacterium avidum 1306
Propionibacterium granulosum 1306
 Proteus 2993 4721 6557 6565 7368
 Proteus hauseri 10244
 Providencia 2993 6557 6565
 Pseudomonas 4721
 Pseudomonas aeruginosa 2993 3749 6550 7368 10245
 Pseudomonas pseudomallei 8117
 purification 1296
 purification, filtration 2986
 pyocin, Pseudomonas aeruginosa 8191
 Pyrenomyces 9026
 resistance, bacteria 1193 1194 1198 1199 2923 4629 4630 4631 5525 5526 5877 7295 7296 7297 8049 8946 10234
 resistance, bacteria, genetic engineering 10512
 resistance, bacteria, R factor 1195 1196 1197
 resistance, Citrobacter 4632
 resistance, coliform 1200
 resistance, coliforms, food 4633 6028
 resistance, Enterobacter 4632 4634
 resistance, Enterobacteriaceae 8945
 resistance, Escherichia coli 3671 4632 6474 6475
 resistance, Escherichia coli, antibiotics 2098
 resistance, Escherichia coli, chicken 8947
 resistance, Escherichia coli, food 6028
 resistance, Escherichia coli, pig carcass 7299

Antibiotics (Contd),

resistance, Escherichia coli, R factor, tetracycline 6490
 resistance, Escherichia coli, R factor transfer, pipemidic acid 3670
 resistance, estuarine water bacteria 3136
 resistance, Fusobacterium necrophorum 10243
 resistance, Haemophilus influenzae, cryptic plasmids 10117
 resistance, Haemophilus influenzae, R factor 10118
 resistance, hospital intensive care unit bacteria 3916
 resistance, intestinal bacteria, R factor 7298
 resistance, Klebsiella 4632 4634 6474
 resistance, Klebsiella pneumoniae, cefoxitin 5655
 resistance, Klebsiella pneumoniae, R factor 8944
 resistance, mastitis bacteria 10116
 resistance, microorganisms 4628
 resistance, Mycobacterium tuberculosis 6482
 resistance, Proteus 4632
 resistance, Proteus, antibiotics 7368
 resistance, Proteus hauseri 10244
 resistance, Proteus mirabilis 4634
 resistance, Pseudomonas aeruginosa 2926 3749 4634 6550 10119
 resistance, Pseudomonas aeruginosa, + heavy metals resistance 7294
 resistance, Pseudomonas aeruginosa, k factor transfer, pipemidic acid 3670
 resistance, Pseudomonas aeruginosa, Staphylococcus, antibiotics resistance 4632
 resistance, Pseudomonas, R factor 5528
 resistance, Rhizobium, + Lotus pedunculatus, nodulation, nitrogen fixation 10067
 resistance, Salmonella 4635 6475 6476 7300 8948 8949
 resistance, Salmonella, chicken 7301
 resistance, Salmonella saint-paul 6475
 resistance, Salmonella typhi 4635 5529
 resistance, Salmonella typhi, ampicillin/sulphamethoxazole-trimethoprim 7377
 resistance, Salmonella typhi, antibiotics 2098
 resistance, Salmonella typhimurium 6477
 resistance, sewage Achromobacter 2925
 resistance, sewage Enterobacteriaceae 2925
 resistance, Shigella 10120
 resistance, Shigella sonnei 5530
 resistance, Staphylococcus 4632 4636 4637
 resistance, Staphylococcus aureus 6475 7302
 resistance, Staphylococcus aureus L-form 3750
 resistance, Staphylococcus hyicus 9045
 resistance, Streptococcus agalactiae, R factor 3672
 resistance, Streptococcus faecalis 8950
 resistance, Streptococcus faecalis, R factor 10121
 resistance, Streptococcus group D, R factor 8962
 resistance, Ureaplasma urealyticum 5626
 resistance, Vibrio cholerae, R factor 8951
 resistance, Yersinia pseudotuberculosis 4638
 Rickettsia prowazeki 5878
 Salmonella 4721 8464 9043
 Salmonella, antibacterial agent, antibiotics, Salmonella 2999
 Salmonella enteritidis 2993
 Salmonella typhimurium 10246
 Serratia marcescens 2993
 shelf-life 9031
 Shigella + Candida albicans 5631
 soil 6410
 soil fungi Imperfecti, antibacterial agent/antifungal agent 5616

Subject index

Antibiotics (Contd),

spectinomycin 9033
 Staphylococcus 3001 4721 7368 8119
 Staphylococcus, anaerobiosis 9044
 Staphylococcus aureus 3000 3002 8119
 Staphylococcus aureus L-form 3750
 Staphylococcus epidermidis 8119
 Staphylococcus hyicus 3002 9045
 Streptococcus 3751 4721 7368
 Streptococcus faecalis 3003
 Streptococcus group B 3194
 Streptococcus group D 6557 6565 7368
 Streptococcus pyogenes 3000
 Streptomycetes 10235
 Streptomycetes, antibacterial agent 9025
 testing 4018
 trickling filter microorganisms, sewage treatment 3262
 tylosin 9033
 vitamins/nicotinamide/p-aminobenzoic acid 2991
 yeasts 2170
 Yersinia enterocolitica 4730 6551

Antibiotics, production & related processes:

General,
 550-565, 1295-1322, 2164-2190, 2986-3011,
 3746-3760, 4711-4748, 5616-5647, 6543-6567,
 7363-7389, 8100-8131, 9025-9054, 10221-10266

Antibody,

5829 5830
 + antigen 2366 2367 2368 2369
 aflatoxin B1 7821
 Aspergillus fumigatus, counter immunoelectrophoresis 10614
 bacteria, indirect enzyme-labelled antibody test 1551
 Brucella abortus, radioimmunoassay 5841
 Chlamydia trachomatis, microimmunofluorescence 1564
 Clostridium botulinum, radioimmunoassay 3971
 enzyme-labelled, Salmonella, food 6990
 immobilisation 9352
 influenza virus, single radial haemolysis test 10635
 microculture plaque assay, viruses 10626
 mumps virus, haemolysis-in-gel test/neutralization test 1608
 rubella virus, solid-phase radioimmunoassay 1609
 Staphylococcus aureus, counterimmunoelectrophoresis 1576
 tetanus 3834 3835
 varicella-zoster, indirect haemagglutination test 3209
 virus, indirect enzyme-labelled antibody test 1551

Antibody-coated bacteria test,

bacteriuria 10542

Antidesma frutescens,

mycorrhiza 8840

Antifame,

5173

Antifoaming agent,

antifoaming wastewater treatment 692

Antifolate agent,

2,6-diaminopurine derivatives, Streptococcus faecalis 501
 2,4,6-triaminopyrimidine derivatives, Streptococcus faecalis 501

Antifungal agent,

see also under Antimicrobial agents, under Plant protection, and under Antibiotics 469
 506 2950 2969 4693
 1-[4-(alkoxyphenoxy)-butyl]-1-ethyl-piperidin-ium bromide 2977
 2,5-dihydroxy-1,4-benzoquinones 8082
 2-aminopyrimidine derivatives, plant protection 395

Antifungal agent (Contd),

3-chloro-tetrahydro-1,3-oxazines/oxazolidine 1267
 9-oxo-13-trans-prostenoic acid amide derivatives 10194
 acenaphthene, Basidiobolus ranarum 513
 2-acetylindole halogen derivatives 5597
 Actinomyces cinerosus yeast-lytic enzyme, Saccharomyces cerevisiae/Candida tropicalis/Rhodotorula 2954
 Actinomyces recifensis lytic enzyme 2480
 actinomycin antibiotic 70591 1369
 aculeacin A 10348
 aculeacin A, Saccharomyces cerevisiae 10350
 aculeacin B/aculeacin C/aculeacin D/aculeacin E/aculeacin F/aculeacin G 10349
 aculeacins 8175
 aliphatic diol, cosmetic preservative 4699
 aliphatic diol diesters 3720
 alkaloid AM-2282 9466
 alkylphenols 531
 allicin 7332
 alpha-halogenated fatty acid 1255
 alphas-omega-alkanedicarboxylic acids/alpha,omega-alkanedicarboxylic acid dimethyl esters 1231
 Alpina officinarum flavonoid 7348
 Alternaria, Alternaria alternata, tobacco 5416
 ambruticin 10351
 amine oxide derivatives 10195
 aminocarbotrithioates 1263 1264
 aminidine derivatives 10197
 2-amino-s-triazino[1,2-a]-benzimidazole, Phytophthora infestans 6515
 2-amino-s-triazino[1,2-a]-benzimidazole, Puccinia tritici 6515
 (4-aminophenyl)thiazole derivatives + indole derivatives Schiff bases 8969
 2-aminotridecane derivatives 3702
 amipirimycin, Pycnaricia oryzae, rice 9124 9125
 ammonium/potassium isobutyrate 1257
 ammonium sulphate, Helminthosporium turcicum, corn 4333
 amphotericin B 2232
 amphotericin B + antioxidants 7416
 amphotericin B, Candida albicans 5645 10326
 amphotericin B, Candida scottii 9106
 amphotericin B, culture medium 3706
 amphotericin B + doxycycline, Candida albicans 5646
 amphotericin B + 5-fluorocytosine, Candida albicans 8990
 amphotericin B, lipids 9053
 amphotericin B methyl ester hydrochlorides 5644
 amphotericin B, radiometry 5694
 amphotericin B + rifampicin, Candida albicans 5646
 amphotericin B + succinic acid 3050
 anhydro-beta-rotunol 3568
 anhydromevalonic acid lactone 1272
 antibiotic 792 9114
 antibiotic A16884 6619
 antibiotic A23187 2239
 antibiotic A30641 2241
 antibiotic A-7 7426 9113
 antibiotic A-2315 3799
 antibiotic A-26771 1390
 antibiotic A-30641 10339
 antibiotic A-32390 10340 10341
 antibiotic B371 5706
 antibiotic EM-49 tetramidino derivatives 5707
 antibiotic H 537SY2 5708
 antibiotic OS-1804 10345
 antibiotic sensitivity testing 1299
 antibiotic SPA-S-222, Candida 6620
 antibiotic SPA-S-222, Cryptococcus 6620

Subject index

Antifungal agent(Contd),

antibiotic TA 6621
antibiotics 2407 2992 5616 5617
antibiotics, abicoviomycin 2170
antibiotics, *Fusarium solani* 10247
antibiotics, Piper betle, betel 9970
antibiotics +
vitamins/nicotinamide/p-aminobenzoic acid 2991
apple post-harvest decay 5396
Aspergillus candidus, wheat post-harvest decay 9962
Aspergillus glaucus, wheat post-harvest decay 9962
Aspergillus niger 3698
Aspergillus terreus 3698
Aspergillus versicolor versicolorin,
Colletotrichum gloeosporioides, jute 8880
aureofungin, *Cephalosporium sacchari*,
sugarcane 8790
azasterol, *Saccharomyces cerevisiae* 10354
Bacillus seed treatment, *Tilletia*
carries/*Tilletia foetida*, wheat 4525
Bacillus subtilis antibiotic 9028
Bacillus subtilis, *Rhizoctonia solani*, cotton 372
Bacillus subtilis seed treatment, *Fusarium solani*, Austrian pine 10001
barbituric acid derivatives 2140
barley straw amendment, soil, *Verticillium albo-atrum*, potato 5415
bean proteinase inhibitor, *Fusarium solani*/*Fusarium culmorum*/*Fusarium avenaceum*/*Botrytis cinerea* 2792
benomyl, *Botrytis allii*, onion post-harvest decay 4439
benzene derivatives 2131
benzimidazole-2-carbamate derivatives 2021 2817
4-benzyloxy-2(1H)-pyridone 9009
biological control, *Bacillus cereus*,
Alternaria alternata, tobacco 9955
biological control, *Barluca filum*, *Cronartium fusiforme*, oak 2049
biological control, *Drechslera sorokiniana*, oat 7202
biological control, *Drechslera sorokiniana*, wheat 7202
biological control, *Endothia parasitica*, chestnut 3617
biological control, *Fomes annosus*, wood 6405
biological control, *Fusarium culmorum*, oat 7202
biological control, *Fusarium culmorum*, wheat 7202
biological control, *Fusarium oxysporum*, pea 5412
biological control, *Phialophora radicola*,
Gaeumannomyces graminis tritici, wheat 370
biological control, *Rhizoctonia solani*, oat 7202
biological control, *Rhizoctonia solani*, wheat 7202
biological control, soil, *Gaeumannomyces graminis tritici*, wheat 369
biological control, soil microflora,
Gaeumannomyces graminis 368
biological control, *Stereum sanguinolentum*, wood 6405
biological control, *Thielaviopsis basicola*, soybean 363
biological control, *Trichoderma viride*,
Sclerotium rolfsii, cotton, S-ethyl
dipropylthiocarbamate 6354
biological control, *Trichoderma viride*,
Sclerotium rolfsii, white clover, S-ethyl
dipropylthiocarbamate 6354
bis(propynyloxy)benzenes 8075
Botrytis cinerea 4669
butyl-p-hydroxybenzoate, cholate 7317

Antifungal agent(Contd),

butylated hydroxyanisole 5592
butylated hydroxytoluene 5592
cadmium 6454
cadmium, clay minerals 6455
candicidin 9130
Candida albicans 1234
candihexin 630
epsilon-caprolactam + alkanediamine
derivatives 2149
epsilon-caprolactam + alkanediamines, water
systems 7318
epsilon-caprolactam +
N-alkyl-propylene-diamine reaction products 8102
epsilon-caprolactam + N-alkylalkylene diamine
reaction product, industrial water system 3126
carbamoyl benzimidazole derivatives, seed
treatment, plant protection 7998
carbamyloxy-benzamioe derivatives 4691
chalcone 7347
chalmogra oil, plant protection 386
5-chloro-7-iodo-2-hydroxyquinoline,
Epidermophyton floccosum 211y
(2-chloroethyl)-triethyl-ammonium chloride,
Trametes badia 1230
cinnamic aldehyde, *Aspergillus parasiticus*,
aflatoxins 10142
cinnamon oil, *Aspergillus parasiticus*,
aflatoxins 10142
cinnamon oil, plant protection 386
cinnamyl phenols 532
citral caproate/allyl caproate, barley grain
preservation, *Aspergillus candidus*, pig feed 4908
citronin 5727
Claviceps purpurea honeydew 4323
clofibrate 7346
clotrimazole 528
clotrimazole, *Candida albicans* 10173
clotrimazole + dioctyl sodium
sulphosuccinate/surfactants, *Candida albicans* 10174
clotrimazole + sulphamethoxazole, *Candida* 4670
clove oil, *Aspergillus parasiticus*,
aflatoxins 10142
Nalpa-cocoyl-L-arginine ethyl ester
DL-2-pyrrolidone-5-carboxylic acid salt,
plant protection 7986
Colletotrichum, *Colletotrichum lindemuthianum*, bean 1999
compound H 646-SY3 5481
contact lens sterilising solution 1282 1284
coumarins, *Phytophthora parasitica*, tomato 4510
crude drugs 3719
cryptosporiopsis, *Graphium*, wood preservative 4555
cuprimyxin, *Pityrosporum canis* 5566
Curcuma caesia oil 5567
Curcuma zedoaria extract 3695
2-cyano-2-hydroxyiminoacetamide derivatives,
plant protection 1104
cyclic dimedone derivatives 1266
cycloalkyl-4-oxoquinoline-3-carboxylic acid
derivatives 2141
cycloate, *Rhizoctonia solani*, sugarbeet 7969
cycloheximide 6633
cycloheximide, *Trametes badia* 1230
cystaurimycin 10332
cytochalasin A, *Saccharomyces* 633
Dacrydium heartshake podocarpic acid 7234
Dactylium dendroides antibiotic 2237
DD-MENCS soil fumigation, *Fusarium*, asparagus 9965
decamethoxin, *Candida albicans*, thermogenesis 2971
deisovaleryl-blastmycin 5722

Subject index

Antifungal agent(Contd),

dendrotrifidiol/dendrotrifidate/dendrotrifidiol one acetate 10168
 desacetylphytoberin, potato 3567
 detergent, plant protection 386
 diallate, cereal 269
 diallyl-disulphide, plant protection 388
 D-3,6-diaminohexanoic acid
 2-(carboxymethyl)-2-methylhydrazine 2151
 2,4-diaminquinazoline derivatives, *Candida albicans* 7335
 diaryl-pyridyl-imidazole methanes 4671
 diazine derivatives, plant protection 7223
 1,3-dichloracetone oxime acetate + beta-bromo-beta-nitrostyrene, industrial water system 2320
 2,2-dichloro-3,3-dimethylcyclopropane carboxylic acid, phytoalexin, *Pyricularia oryzae*, rice 8785
 dichlorophenyl derivatives, plant protection 5428
 1,3-dichloropropene, degradation, soil microorganisms, *Phytophthora parasitica* 10078
 dihalo-sulphonate derivatives 7979
 4,5-dihydrotetrazolo(1,5-a)-quinoxaline derivatives, plant protection 9989
 dimethylol dimethylhydantoin 3903
 dinitramine, *Aphanomyces euteiches*, pea 6353
 dinitro-bithiophene derivatives 8098
 dinoseb, *Sclerotium rolfsii*, peanut 9957
 1,3-dioxane-4,6-dione derivatives 9007
Diplocadium elegans antibiotic 2237
 disinfectant 6726
 econazole 2974
 ethephon, *Alternaria solani/Alternaria tenuis/Colletotrichum*, tomato 8805
 ethylene oxide/methyl formate 4253
 ethylene, *Verticillium albo-atrum*, tomato 6361
Eucalyptis leaf extracts 10166
 eugenol, *Aspergillus parasiticus*, aflatoxins 10142
 ezomycins 636
 fensulfothion, *Sclerotium rolfsii*, peanut 2086
 flavanone derivatives 10188
 flavobacterium dormitator
 endo-beta-1,3-glucanase, yeast 2466
 flavone 7347
 flavone derivatives 10188
 5-fluor-D,L-tryptophan, *Claviceps/alkaloid* 5576
 fluorinated acridine derivatives 5577
 5-fluorocytosine 2952 8113 9032 10175 10176
 5-fluorocytosine, *Candida albicans*, disc sensitivity testing 5573
 5-fluorocytosine, *Hymenomyces* 7334
 5-fluorodeoxyuridine, *Trametes badia* 1230
 5-fluoroindole, *Claviceps/alkaloid* 5576
 DL-p-fluorophenylalanine, *Phoma tracheiphila*, Citrus 9975
 DL-p-fluorophenylalanine, *Phoma tracheiphila*, sour orange 9975
 food preservation 6811
 food preservative 5593
 food preservative, *Byssoschlamys nivea* 4252
 food preservative, *Byssoschlamys nivea* spores 3423
 formaldehyde 5523
 formaldehyde + hot water, *Fusarium oxysporum*, narcissus 7978
 fructose 5593
 furancarabamic acid esters 2143
Fusarium nivale, wheat 9962
Fusarium, okra 6277
 garlic juice 8987
 garlic oil, plant protection 388
 gibberellic acid, *Botrytis cinerea*, *Vitis* 2010

Antifungal agent(Contd),

glutaraldehyde 6509 6525
 gram phyllosphere fungi, *Uromyces ciceris-arietini*, gram 3465
 gramicidin A/gramicidin A analogues 4804
 grape post-harvest decay 5399
 griseofulvin, lipids 9053
 halogenated oxadiazole-2-thione derivatives 5577
 hamycins 10266
 harrowed bark compost, *Phytophthora cinnamomi*, lupin 7960
 helenin 6531
Helminthosporium oryzae, rice 283 4498
Helminthosporium sativum, wheat 9962
 herbicide, *Aphanomyces euteiches*, pea 7968
 herbicidin A/herbicidin B 5741
 hexachlorophene + povidone-iodine + ethanol, bronchofiberscope disinfection 5807
 hexametaphosphate, cholate 7317
 histones, *Fusarium solani*, pea 9954
 D-homo-aza steroid derivatives 5979
 homeopathic drugs, *Pestalotia psidii*, guava post-harvest decay 9915
 hop oil emulsion, beer 5168
 hyalodendrin, *Graphium*, wood preservative 4555
 hydrogen peroxide, *Candida albicans/Trichophyton mentagrophytes/Aspergillus niger* 2953
 hydrogen peroxide, culture medium sterilisation 8104
 hypcholesteremic agent 7346
 imidazole derivatives 2137
 imidazolyl-indane derivatives 6512
 imidazolyl-O-N-acetal derivatives 3704
 imidazolyl-tetralin derivatives 6512
 imidazolylacetic acid amides 515
 2-imino-2H-s-triazino[2,1-b]-benzothiazole, *Botrytis cinerea* 6515
 indole derivatives 8099
 insecticide, *Fusarium graminearum*, zearelanone 2636
 insecticide, *Phytophthora infestans*, potato 4501
 iodine disinfectant 8253
 iodopolymers 1258 1259
 isoflavone, *Botrytis cinerea*, red clover 1846
 isoflavone, *Sclerotinia sclerotiorum*, red clover 1846
 isoflavonoid, *Helminthosporium carbonum*, pigeon pea 3566
 isothiocyanate derivatives 3722
 iturin A, bacillomycin B 5743
 iturin A, bacillomycin R 5743
 iturin A, eumycin 5743
 kievitone, *Aphanomyces euteiches* 2000
 kievitone, *Fusarium solani* 2000
 kievitone, *Fusarium solani*, bean 8786
 kievitone, *Rhizoctonia solani* 2000
 kokandomycin 9138
Lawsonia alba leaf extract 7331
 levorin, *Candida* 10378
 levorin, *Candida albicans* 5645
 levorin, *Candida albicans*, thermogenesis 2971
 lime, *Plasmiodiophora brassicae*, brussels sprout 4503
 LL-21271alpha, *Acrostalagmus*, terpenoid 5156
 lubimin, fungi, potato 7967
 lubimin, *Phytophthora infestans*, potato 1940
 luteone, lupin 3565
 lyubimin, potato, microorganisms 4495
 maackia, *Helminthosporium carbonum* 4496
 maackia, *Stemphylium botryosum* 4496 4497
 maackia, *Stemphylium sarcinaeforme* 4496 4497

Subject index

Antifungal agent(Contd),

mangiferin seed treatment, *Fusarium oxysporum*, safflower 7992
 medicarpin, *Helminthosporium carbonum* 4496 4497
 medicarpin, *Stemphylium botryosum* 4496 4497
 medicarpin, *Stemphylium sarcinaeforme* 4496 4497
 2-mercaptoproethanol, *Aspergillus parasiticus*, aflatoxin 4258
 mercurial, *Saccharomyces cerevisiae* 2956
 metal ions 3699
 methylosaniline, animal feed 5245
 methyl bromide + pentachloronitrobenzene, *Sclerotium rolfsii*, iris 9967
 methyl bromide, *Sclerotium rolfsii*, iris 9967
 methylosaniline, animal feed 2603
 9-methylstreptimidone 649
 alpha-methylstyrene 8991
 2-methylthio-5-(3-iodopropargyloxy)-pyrimidine 3705
 miconazole 2952 2974 6513
 miconazole, assay, *Candida stellatoidea* 5572
 miconazole, *Candida albicans* 10173
 miconazole, culture medium 3706
 monoketo-organomycin 10332
 morpholino-N-acetohydrazide hydrazones 2152
 mycobacillin derivatives 10386
 mycorrhiza, *Fomes annosus* 1123
 mycorrhiza, *Phytophthora cinnamomi* 1123
 N-methyl-imidazole derivatives 10172
 N-methyl-oligopeptides 535
 natamycin, beverage preservation 6130
 sodium dehydroacetate 7333
Nectria galligena, apple post-harvest decay 5396
 5-nitrofurylacrylic acid, wine 3359
 nitrogen/potassium/phosphorus fertilizer, *Fomitopsis annosa*, spruce 2846
 nitroimidazole derivatives 1270
 nitroimidazolyl-acetylpropenoic acid derivatives 2136
 nitroimidazolyl-pyrazole derivatives, animal feed 9625
 nitroperhydropyridodiazepine derivatives 2976
 nitrostyrene derivatives 9010
 non-woven fibres 8040
 Norway spruce root constituents, *Fomes annosus* enzymes 2845
 nyphimycin A1-scopafungin 644
 nystatin, *Candida albicans* 5645
 nystatin methyl ester hydrochlorides 5644
 nystatin, *Pityrosporum canis* 5566
 octapeptin antibiotics 7441
 Oerskovia beta-1,3-glucanase/lytic enzyme, yeast 3275
 oospolactone, *Gloeophyllum sepiarium* 2538
 organic fluorine compounds 5575
 oxadiazon, *Sclerotium rolfsii*, peanut 9957
 oxime esters 2148
 n-oxypyridyl thiol aluminium derivatives 749
 ozone, cheese rind 2610
Panaeolus 6545
 Panolog, *Pityrosporum canis* 5566
 papulacandins 10396
 paraldol 3721
 Parthenium hysterophorus extract 2932
 partricin 2267
 partricin esters 2266
 partricin methyl ester 2267
Pellicularia sasakii/*Pellicularia filamentosa*, cell wall-lysing enzyme complex 4072
 Penicillium antibiotics, *Rhizoctonia*, sugarbeet 4499
 Penicillium claviforme, sugarbeet post-harvest decay, *Botrytis cinerea*/Phoma betae 3544

Antifungal agent(Contd),

Penicillium patulum, *Phytophthora cryptogea*, squash 372
Penicillium patulum, *Rhizoctonia solani*, cotton 372
Penicillium purpurogenum, forest soil
Phytophthora cinnamomi 7260
Penicillium, wheat post-harvest decay 9962
Peniophora gigantea, *Fomes annosus*, pine 2838
 pentachloronitrobenzene, *Sclerotium rolfsii*, iris 9967
 pentachlorophenol, water microorganisms 9220
 peracetic acid, pharmaceutical cream sterilisation 2979
 perdeuterated fatty acids 1232 1233
 pet feed 1776
 phacidin 10398
 phaseollin, *Botrytis cinerea*, bean 3460
 phaseollin, *Colletotrichum lindemuthianum*, bean 6349 8787
 1,10-phenanthroline, hydrocarbon/industrial fluid 475
 phenethylamine polymers 10191
 phenoxycetamido-nitrothiazole derivatives 2973
 phenyl-imidazolyl-fatty acid derivatives 8078
 phenyl-indole derivatives 6530
 phenylazoxycyanide derivatives 9002
 phenylenediamine derivatives, plant protection 8835
 3-phenylisoquinoline 6529
Phialophora cinereascens antibiotic 10399
 phonograph record 472
 phytoalexin, *Helminthosporium carbonum*, chickpea 6348
 phytoalexin, *Phytophthora infestans*, potato 2793
 phytuberin 3568
 phytuberin, *Erwinia carotovora*, potato post-harvest decay 4445
 phytuberin, potato 3567
 pimarin, packaged cottage cheese 6125
 piperidino-N-acetohydrazide hydrazones 2152
 pisatin, *Aphanomyces euteiches*, pea 1857
 pisatin, *Erysiphe pisi*, pea 8786
 pisatin, pea 6350
 plant extracts 10186
 plant extracts, plant protection 9956
 plant growth regulator, *Alternaria solani*, cellulase 3697
 plant growth regulator, *Alternaria tenuis*, cellulase 3697
 plant leaf extracts, *Puccinia coronata avenae* 1028
 plants 6523
 plywood preservative 10032
 polychlorinated biphenyls, *Aspergillus flavus* 4576
 polyene antibiotic metal complexes 1376
 polyene antibiotics 3759
 polyene antibiotics, *Neurospora crassa*, sterols 5647
 polymeric biguanide, plant protection 405
 polymyxin B, *Coccidioides immitis* 620
 potassium chloride, *Fusarium oxysporum*, oil palm 387
 preventol 7333
Primula acaulis saponin, *Candida* 2120
 propionic acid, bread/sponge cake preservation 9684
 propyl gallate 5592
 prostaglandin derivatives 10195
 pterocarpin, *Botrytis cinerea*, red clover 1846
 pterocarpin, *Sclerotinia sclerotiorum*, red clover 1846
 purpuromycin 10402

Subject index

Antifungal agent(Contd),

pyracarbolid, *Rhizoctonia solani*, plant protection 3585
 pyrano-nucleo derivatives 7349
 pyrazofurin acylates 2138
 pyridazine-2-oxide derivatives 3932
 pyrrolidine derivatives 9006
Pythium oligandrum, *Pythium debaryanum*/*Pythium ultimum*, sugarbeet 9991
 quaternary ammonium compounds 1535 2145 2146
 quaternary ammonium phenolate, paper 2907
 quaternary ammonium salt 470
 quinoline derivatives 2140
 quinolizine-2-carboxylic acid derivatives 4694
 quinolizine derivatives 8100
 quinoxaline derivatives 5598
 rapamycin 1437
Rhizobium/Rhizobium + mung bean 3649
 rhizopin 1438
 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives, plant protection 3589
 ribofuranosyl-1,2,3-triazole derivatives 3727
 rifamycin, *Trametes badia* 1230
 rishitin 3568
 rishitin, *Erwinia carotovora*, potato post-harvest decay 4445
 rishitin, *Fusarium lycopersici*, tomato 8789
 rishitin, *Phytophthora infestans*, potato 1940 6286 6351
 rishitin, potato 3567
 rishitin, potato, microorganisms 4495
 rishitinol, *Phytophthora infestans*, potato 1940
 room hygiene 3909
Rosa chinensis extract, gallic acid 6507
 rose flowers, gallic acid 8072
Rumex maritimus extract, *Trichophyton mentagrophytes*/*Microsporum canis* 3696
 S-alkylthiuronium halides 6527
Saccharomyces cerevisiae killer toxin 5279 5280
Saccharomyces sake killer toxin 5279
 salicylic acid/salicylic acid + betamethasone dipropionate 10190
 samarosporin 4824
 scytaligin, *Graphium*, wood preservative 4555
Septoria nodorum, wheat 962
 Shigella + *Candida albicans* 5631
 shiitake/nameko/enokidake, *Plasmopara viticola*, melon 1694
 Siberian fir soft resin 8094
 silicoorganic amines 530
 sodium chloride, cholate 7317
 soft N-chloramine derivatives 5594
 soil, *Cochliobolus sativus* conidia 6427
 soil fertilizer, *Protomyces macrosporus*, coriander 3574
 soil fumigant, *Phytophthora nicotianae*, tobacco 9971
 soil fumigation, *Sclerotinia sclerotiorum* 7282
 soil, *Fusarium oxysporum*, flax 366
 soil sterilant, *Plasmodiophora brassicae*, cabbage 6358
 soil, *Thielaviopsis basicola* chlamydospores 6427
 soil treatment, *Fusarium*, *ponderosa* pine 6391
 soil treatment, *Pythium*, *ponderosa* pine 6391
 soil urea, *Verticillium dahliae*, cotton 4520
 solavetivone 3568
 solavetivone, potato 3567
 sorbic acid, food preservative 8529
Sporobolomyces roseus, *Cochliobolus sativus*, wheat 6352
Streptomyces volatile compounds 8986
 striatins 9155
 styrene 8991

Antifungal agent(Contd),

sugars/sugar alcohols 5593
 sulphanilamide, *Saccharomyces cerevisiae* sporulation 8074
 sulphonamide derivatives 6528
 sweet pterocarpal phytoalexins, fungal transformation 3463
 synergy, microdilution transfer plate technique 5627
 tar 507 508
 tetrahydro-cyclopropa(b)naphthalenes 4692
 tetrahydrofuranyl bromoacetate derivatives 533
 tetramethylene bis(methanethiosulphonate) 4690
Thalictrum rugosum alkaloid 2144
 thallium 4689
 thiazolo(5,4-f)quinoline-8-carboxylic acid derivatives 1273
 thio-beta-lactam cephalosporins 5666
 thio-beta-lactam penicillins 5679
 thiolacetic acid derivatives 3723
 thionosalicylic acid anilide derivatives 3726
 thiourea 8992
 tomato xylem extract, *Fusarium oxysporum*, tomato 8781
 Toptic, *Pityrosporum canis* 5566
Torulopsis glabrata killer toxin 5280
 trace metal leaf pollutants, inomia platani, trees 7239
 transition metal dithiocarbamate complexes 3700
 triazine derivatives 3728
 triazine derivatives, plant protection 3728
 triazole derivatives 2960
 s-triazolo-quinoline derivatives, plant protection 404
Trichoderma lignorum 6508
Trichoderma viride, *Verticillium malthousei*, mushroom 3564
 trifluralin, *Aphanomyces euteiches*, pea 6353
 trimethoprim-sulphamethoxazole 4658
 trimethoxybenzoylamino acid derivatives 8095
 undecylenic acid, *Epidermophyton floccosum* 2119
 Unitop, *Pityrosporum canis* 5366
 beta-ursolic acid 6532
Ustilago nuda 6377
 veterinary topical products 1970
 vitamin D3 10187
 Vorex, soil microorganisms 10081
 wheat seed 407
 wood preservative 4551 4554 10030
 wood preservative, *Schizophyllum commune* 8865
 wood preservative, vermiculite burial test 422
 wyerone epoxide, *Botrytis cinerea*/*Botrytis fabae*, broad bean 373
Antifungal treatment,
 kerf, Douglas fir pole 4553
Antigen,
 5829 5830
 + antibody 2366 2367 2368 2315
 agglutination 1552
 L-asparaginase, *Escherichia coli*/*Erwinia carotovora* 2524
Bacillus anthracis, vaccine 3187
Brucella ovis, *Brucella canis* plate test, dog 2375
Campylobacter fetus, culture medium 772
Clostridium tetani 3833
 flagellar, *Salmonella*, erythrocytic H-diagnostic agents 7684
 haemagglutinin, *Mycoplasma gallisepticum*, haemagglutination inhibition test 79
 haemagglutinin, *Mycoplasma synoviae*, haemagglutination inhibition test 79
 hepatitis B, purification 1611

Subject index

Antigen(Contd),

hepatitis B, vaccine 4832
 hepatitis B virus, vaccine 657
 K99, *Escherichia coli* 5135
 K99, *Escherichia coli*, Minca medium 5843
 K, *Escherichia coli*, agarose electrophoresis + Cetavlon precipitation 3178
 K, *Escherichia coli*, immunodiffusion 5842
 K, *Escherichia coli*, immunoelectrophoresis 5842
 K, *Escherichia coli*, indirect haemagglutination 5842
 Lipopolysaccharide, *Escherichia coli* 1682
 Mycobacterium tuberculosis, tuberculosis test substance 4959
 Neisseria gonorrhoeae, zeolite disruption 5136
 O, *Bacteroides fragilis* 63
 O, *Escherichia coli*, immunodiffusion 5842
 O, *Escherichia coli*, immunoelectrophoresis 5842
 O, *Escherichia coli*, indirect haemagglutination 5842
 oral vaccine, countercurrent immunoelectrophoresis 3083
 Q fever phase 1, vaccine 664
 Saccharomyces cerevisiae 5138
 soluble, influenza virus, complement fixation 4008
 T-1, Streptococcus 8336
K99 antigen,
Escherichia coli 6952
O-antigen,
 standardization, cholera vaccine 7458
Antihistamine,
 antibacterial agent 2938 5549
Antileukaemia agent,
Aeromonas punctata L-serine dehydratase 9434
Proteus vulgaris L-serine dehydratase 4124
Antimetabolite,
 N-1409, *Streptomyces plumbeus* 8325
Antimicrobial agent,
 see also under Plant protection, and under Antibiotics 3718 5014
 5-alkylthiomethylhydantoin-S-oxides 10189
 antibiotic A204I derivatives 10338
 butylated hydroxy anisole, food preservative 958
 chlorine disinfectant 5204
 chlorine, microbial fouling, industrial water system 10469
 cosmetic preservative 5605
 N,N-dibutyl-9(10)dibutylphosphonooctadecanamide 2906
 disinfectant 3904
 fabric 1182
 fibre material 3660
 gramicidin A/gramicidin A analogues 4804
 griseofulvin 528
 imidazole-4,5-dicarboxamide 2134
 indazole derivatives 3729
 indolizino-isouquinoline derivatives 3730
 low-foaming non-ionic surfactant, sanitizer 4890
 metal ions 4688
 1-methyl-2-nitro-5-vinylimidazole 8096 8097
 methylrosaniline, animal feed 2603
 microorganisms, photometry 6759
 nitrofurans 8097
 nitroimidazoles 8097
 nitropyrrole derivatives 9004
 nitrothiazole derivatives 9005
 phonograph record 472
 prostaglandin derivatives 10195
 ptarmigan 2611
 pyrimidine derivatives 10192
 quinolone derivatives 2142
 residues, meat, dialysis test 1747
 salinomycin 3077
 skin disinfectant 10494

Antimicrobial agent(Contd),

Streptomyces kitasatoensis fatty acid 5890
 thiourea derivatives 5596
 wood preservative 4012
 yarn 1182
Antimicrobial agent sensitivity testing,
 bacteria/fungi, medium 4715
Antimicrobial agents: Antibacterial & bactericidal,
 494-505, 1212-1229, 2107-2118, 2931-2949, 3681-3694, 4653-4667, 5546-5565, 6494-6506, 7314-7329, 8062-8071, 8972-8985, 10139-10165
Antimicrobial agents: Antifungal & fungicidal,
 506-515, 1230-1238, 2119-2121, 2950-2961, 3695-3710, 4668-4671, 5566-5577, 6507-6515, 7330-7336, 8072-8082, 8986-8992, 10166-10178
Antimicrobial agents: Antimicrobial & microbiocidal,
 527-535, 1254-1273, 2129-2152, 2969-2977, 3718-3731, 4687-4694, 5592-5598, 6523-6532, 7345-7349, 8094-8102, 9002-9010, 10186-10197
Antimicrobial agents: Antimycobacterial,
 491-493, 2106, 2928-2930, 3678-3680, 4649-4652, 5544, 5545, 6492, 6493, 8058-8061, 8967-8971, 10131-10138
Antimicrobial agents: Antiviral & viricidal,
 516-526, 1239-1253, 2122-2128, 2962-2968, 3711-3717, 4672-4686, 5578-5591, 6516-6522, 7337-7344, 8083-8093, 8993-9001, 10179-10185
Antimicrobial sensitivity testing,
 527 550
Antimony,
 stibnite oxidation, *Thiobacillus ferrooxidans* 8933
Antimycin A,
Streptomyces 1405 1406
 yeasts 2170
Antimycobacterial agent,
 see also under Antimicrobial agents, and under Antibiotics 6806 9032
 3-(methylmercapto)propylaminobleomycin, Mycobacterium smegmatis 1690
 amikacin 7388
 alpha-aminocarboxylic amide 8060
 aminoglycoside antibiotics 3755
 alpha-aminooxycarboxylic acid derivatives 8058 8059
 anhydroerythromycin B 3046
 antibiotic 792 9114
 antileprosy agents, Mycobacterium intracellulare 10132
 arylsulphonylacetic acid hydrazide derivatives 8985
 bleomycins 629
 chlortetracycline, Mycobacterium citreum 9110
 clofazimine, Mycobacterium marinum 2928
 compound B1912, Mycobacterium marinum 2928
 1-deoxy-D-threo-pentulose, Mycobacterium avium 5728 5729
 disinfectant 7509
 ethambutol 6492
 ethambutol, Mycobacterium tuberculosis 4649
 gentamicin 7388
 glycollic acid iodophenyl hydrazide derivatives 8971
 gramicidin A/gramicidin A analogues 4804
 hexachlorophene + povidone-iodine + ethanol, bronchofiberscope disinfection 5807
 hydrazinoamine derivatives, Mycobacterium tuberculosis 4651
 isoniazid-copper complex, Mycobacterium tuberculosis 7343
 isoniazid, Mycobacterium phlei 10136
 isoniazid, Mycobacterium tuberculosis 4649 10137

Subject index

Antimycobacterial agent(Contd),

mimosamycin 2263 2264
 minosaminomycin 10383
 Mycobacterium fortuitum 10131
 Mycobacterium tuberculosis, sensitivity testing, radiometry 9041
 N-methyl-oligopeptides 535
 naphthoquinone-4-aryl(aroyl)hydrazone derivatives, Mycobacterium tuberculosis 6493
 paromomycin derivatives 3784
 peracetic acid, Mycobacterium bovis 3679
 peracetic acid, Mycobacterium tuberculosis 3679
 piperazinyl-oxopyrido-pyrimidine derivatives 2946
 polyinosinic-polycytidylic acid, Mycobacterium leprae 4652
 pyrazine derivatives 10134
 pyrazine derivatives, Mycobacterium tuberculosis 3680
 rifampicin 7309
 rifampicin, Mycobacterium marinum 2928
 rifampicin, Mycobacterium tuberculosis 4649
 riminophenazine derivatives, Mycobacterium marinum 2928
 salicylanilide derivatives, Mycobacterium tuberculosis 5544
 sisomycin 7388
 steffimycinone/7-deoxystefferimycinone 8193
 sulphuric acid 8967
 Thalictum rugosum alkaloid 2144
 thiadiazole derivative, Mycobacterium leprae 8061
 thienopyridine-carboxylic acid derivatives 503
 thionaphthamide derivatives 5545
 thionaphthamide derivatives, Mycobacterium tuberculosis 10135
 tobramycin 7288
 xylostasin 654

Antimycoplasmal agent,

achromycin, citrus greening, sweet orange 5355
 achromycin, mycoplasma-like organism, little leaf disease, eggplant 5372
 amphotericin E methyl ester 4780
 antimoebin, mycoplasma-like organism, purple top roll disease, potato 5386
 aureomycin, mycoplasma-like organism, little leaf disease, eggplant 5372
 chloramphenicol, mycoplasma-like organism, purple top roll disease, potato 5386
 dimethylchlorotetracycline, witches' broom, Mirabilis jalapa 5379
 laidlomycin 4807
 ledermycin, citrus greening, sweet orange 5355
 ledermycin, mycoplasma-like organism, little leaf disease, eggplant 5372
 oxytetracycline, X-disease, peach 6375
 plant disease 5295 8826
 plant disease, plant protection 5436
 plant extracts 10186
 sandal spike, sandal 5464
 terramycin, mycoplasma-like organism, little leaf disease, eggplant 5372
 tetracycline, little leaf, brinjal 8829
 tetracycline, mycoplasma-like organism, purple top roll disease, potato 5386
 tetracycline, witches' broom disease, jujube 315
 tetracycline, witches' broom, Mirabilis jalapa 5379

Antioxidant,

+ amphotericin B, antifungal agent 7416
 antibacterial agent/antifungal agent 5592

Antipain,

human complement 5907

Antiprotazoal agent,

antitoxics 5617

Antirrhinum,

Puccinia antirrhini, cold treatment 9949

Antisepsis,

hospital 4893

Antiseptic,

6725
 alcoholic chlorhexidine 8252
 alcoholic chloroxylenol 8252
 antibacterial agent 6738 7508
 bactericide 3137
 chlorhexidine gluconate 4908
 dimethylol dimethylhydantoin 3903
 hospital 7511 7512
 iodinated alcohol, bactericide 6737
 n-oxypyridyl thiol aluminium derivatives 749
 package 3742
 povidone iodine 2935
 povidone iodine, bactericide 6737
 quaternary ammonium compounds 5802
 xylenol derivative, antibacterial agent 10488

Antiseptics,

Providencia stuartii 4654

Antiserum,

reference, Achleplasma, assay 5847
 reference, Mycoplasma, assay 5847
 Salmonella O polyvalent/Vi, quality control 3745

Antistreptolysin O,

titration 4970

Antitetanus immunoglobulin,

3835

Antitoxin,

tetanus, human immunoglobulin 3834 3835

Antitubercular agent,

see also under Antimicrobial agents, and
 Antimycobacterial agent 9032
 4-(p-aminophenyl)thiazoles 493
 2-acetylindole halogen derivatives 5597
 aminoglycoside antibiotics 3755
 arylsulphonylacetic acid hydrazide derivatives 8985
 capreomycin 5724
 ethambutol, Mycobacterium tuberculosis 4649
 hydrazinoamine derivatives 4651
 isoniazid-copper complex 7343
 isoniazid, Mycobacterium tuberculosis 4649
 10137
 Mycobacterium farcinicum 4648
 Mycobacterium phlei 4648
 Mycobacterium smegmatis 4648
 Mycobacterium tuberculosis 4648
 N-methyl-oligopeptides 535
 naphthoquinone-4-aryl(aroyl)hydrazone derivatives 6493
 paromomycin derivatives 3784
 rifampicin, Mycobacterium tuberculosis 4649
 7309
 thiazole derivatives 2106
 thionaphthamide derivatives 5545

Antituberculosis agent,

glycolic acid iodophenyl hydrazide derivatives 8971
 piperazinyl-oxopyrido-pyrimidine derivatives 2946
 salicylanilide derivatives 5544

Antituberculous agent,

(4-aminophenyl)thiazole derivatives + indole derivatives Schiff bases 8969
 antibiotic 41,012 10334
 Mycobacterium fortuitum 10131
 pyrazine derivatives 3680
 thionaphthamide derivatives 10135
 thiosemicarbazone derivatives 10138

Subject index

Antitumour agent,

5-ketocoriolin B derivatives 9135
actinoxanthin 5120
L-asparaginase, *Erwinia carotovora* 875
L-asparaginase, *Escherichia coli* 875
Bacillus thuringiensis protein, Yoshida
ascites sarcoma 67
carzinophilin, DNA 9458
Coriulus versicolor polysaccharide 70 71
Erwinia carotovora L-asparaginase 8414
Escherichia coli L-asparaginase 8414
immobilised L-asparaginase, *Escherichia coli*
4123
immobilised L-glutaminase, *Escherichia coli*
4123
Mycobacterium kansasii 2523
Mycobacterium smegmatis 2523
Mycobacterium tuberculosis 2523
mycophenolic acid derivatives 873 874
polysaccharide, *Vibrio* 72
Proteus mirabilis lipopolysaccharide 3337
Streptococcus streptolysin S 4017

Antitumour antibiotic,

5122 6939
3-(methylmercapto)propylaminobleomycin 1690
N-acetyl-daunorubicin 9459
N-acetyl-daunorubicinol 9459
acetyl kidamycin 8416
adriamycin derivatives, DNA 9121
adriamycin + DNA 2525
adriamycin, nuclear magnetic resonance
spectroscopy 3338
antibiotic 20,798 R.P., daunorubicin
reduction 9457
antibiotic 27,706 RP 4125
antibiotic 792 9114
antibiotic OS-3256-B 9456
antibiotic PSX-1 5996
antibiotic U-43,120 4126
antiviral agent 1322
bacterial reduction 1383
bleomycin 5123
bleomycin, structure 4127 9128
bleomycins, + metals 6627
bredinin 8417
calvatic acid 10359
carminomycinone, glycosylation, *Actinomyces*
coeruleorubidus 8419
chlorocarcin A/chlorocarcin B/chlorocarcin C
2263 2264
damavaricin C 2526
damavaricin C derivatives 5997
daunomycin, *Streptomyces peucetius* 877
daunorubicin derivatives, DNA 9121
daunorubicin, microbial reduction,
13-dihydrodaunorubicin 8418
daunorubicin, nuclear magnetic resonance
spectroscopy 3338
echinomycin, conformation 10366
enomycin, protein synthesis inhibition 878
hedamycin, structure 10372
lambdamycin 4808
litomycin 2187
macromonomycin, *Streptomyces macromomyceticus*
1691
medermycin 4812
mithramycin 5998
mithramycin, DNA 6941
mycoheptin 9461
N-acylated daunorubicin derivatives, mass
spectrometry 2527
neothramycin, *Streptomyces* 9462
phleomycins 9463
platomycin A/platomycin B, *Streptosporangium*
violaceochromogenes 9148
resistance, Fisher lymphadenosis 9120
resistance, *Staphylococcus aureus* 9120
rubomycin, glycosylation, *Actinomyces*
coeruleorubidus 8419
screening, *Saccharomyces cerevisiae* 5623

Antitumour antibiotic(Contd),

sporamycin 694C 8420 9464
Streptomyces showdoensis 5745
streptonigrin-transition metal complex 9465
streptozotocin, analogues 7456
thin-layer chromatography 7676
tubercidin derivatives 5124

Antitumour enzyme,

L-asparaginase, *Escherichia coli* 5995 8412
9454
L-asparaginase, *Mycobacterium phlei* 68
L-asparaginase, *Staphylococcus* 8413
Azotobacter vinelandii asparaginase 5994
L-glutaminase-asparaginase 9403
L-glutaminase, *Pseudomonas testosteroni* 69
Pseudomonas 7A glutaminase-asparaginase 876
Pseudomonas acidovorans
L-glutaminase-L-asparaginase 5121

Antitumour polysaccharide,

marine bacterium 9455
Vibrio 8415

Antivermal agent,

antibiotics 5617

Antiviral agent,

see also under Antimicrobial agents, under
Plant protection: Antimicrobial and
microbiocidal agents and under Antibiotics
1239 3714
8-hydroxyquinolines 526
2,3-bis(acetyl mercaptomethyl)-quinoxaline,
herpes simplex virus 4685
acridine derivative 1250 1251
Actinomyces rimosus ribonuclease 9001
adamantanamine derivatives, influenza virus,
DARC/PELCO system 2964
adamantane derivatives 468E 4631 8086
adamantyl thioamides 2126
aluminium foil, watermelon mosaic virus,
marrow 7984
aminoadamantane derivatives 4679
aminophenyl-adamantane derivatives 2963
amitozin, influenza virus 5591
2,2-anhydro-1-beta-D-arabinofuranosylcytosine
acyl derivatives 5588 5589
antibiotic 66-40D 1C335
antibiotic A-26771 1390
antibiotic S15-1 1401
antibiotics 2407
antibiotics, plant protection 9983
1-beta-D-arabinofuranosyl cytosine 522
1-beta-D-arabinofuranosylcytosine acyl
derivatives 5588 5589
1-beta-D-arabinofuranosylthymine 10184
arenavirus 2122
azatricyclo-undecane 524
6-azauridine, myxomatosis virus 1246
benzimidazole derivatives 2967
bis-benzimidazole derivatives 7341
biguanide derivatives 1253 6520
bis-basic cyclic ketone derivatives 8092
BL-3849A 2124
bleomycin 1322
broad bean mosaic virus 8996
broadbena mosaic virus, broad bean 3591
cabbage leaf extract, tobacco mosaic virus
516
caffeic acid 8997
calcium hydroxide, poliovirus, sewage 1462
carbazole derivatives 2128 8090
carbendazim, plant protection 2819
Chelidonium alkaloids, influenza virus 8994
Chenopodium amaranticolor leaf extract,
tobacco necrosis virus 4521
chlorination, water 1500
chlorine, phage MS-2 + bentonite 6519
chlorpromazine, poliovirus 1252
colchaminethiotepe, influenza virus 5591
cordycepin, western equine encephalitis virus
4683
cucumber mosaic virus, chilli 8834

Subject index

Antiviral agent(Contd),

cytoalkyl-4-oxoquinoline-3-carboxylic acid derivatives 2141
 2,2'-cyclocytidine 522
 cytokinin, tobacco ringspot virus, cowpea 8608
 Dahlia leaf extract, tobacco mosaic virus, Nicotiana glutinosa 3590
 daunomycin 1322
 3-deazaguanine 10183
 3-deazaguanosine 10183
 3-deazaguanylic acid 10183
 3-deazauridine, Japanese B encephalitis virus 6521
 2-deoxy-D-glucose 7341
 2-deoxy-D-glucose + 3-deazauridine, Japanese B encephalitis virus 6521
 2-deoxy-D-glucose, Japanese B encephalitis virus 6521
 dialkylbenzylamines 2125
 1-difluorino-adamantane, herpes virus 2147
 2,3-dihydro-1H-imidazo[1,2-b]pyrazole, herpes simplex virus 3716
 dihydroxyanthraquinone derivatives 7342
 dipyrimadole 10182
 disinfectants 1242
 disinfectants, vaccinia virus 6736
 distamycin A 1322
 distamycin A, herpes simplex virus 3068
 fluorene 5586
 formaldehyde 5523
 fruit extract 2962
 fumaric acid, plant protection 9984
 glucosamine 7341
 grape 4672
 grape juice 4672
 heat treatment, grapevine 7965
 heat treatment, potato virus S, potato 4479
 Herniaria glabra extract, influenza virus 8994
 hexachlorophene + povidone-iodine + ethanol, bronchofiberscope disinfection 5807
 hydantoin derivatives 2965
 hydrogen peroxide, herpes simplex virus 2123
 influenza virus 4674
 interferon 517 519 4676 5579 5580 6518 8083
 interferon, actinomycin antibiotic 70591 1389
 interferon + adenine arabinoside/hypoxanthine arabinoside/adenine arabinoside 5-monophosphate 5584
 interferon, adsorption chromatography, controlled pore glass 4677
 interferon, 2-amino-5-bromo-6-methyl-4-pyrimidinol/tilorone/polyinosinic acid-polycytidylic acid 8999
 interferon + 9-beta-D-arabinofuranosyladenine, herpes simplex virus 4678
 interferon, Aspergillus foetidus virus 7337
 interferon, Aspergillus niger virus 7337
 interferon, cytomegalovirus 7339
 interferon, fungal RNA 9451
 interferon, polyinosinic acid-polycytidylic acid + antibiotics 10180
 interferon, polyribonucleoside:polyribocytidylic acid 520
 interferon, purification 7338
 interferon, stabilisation 10181
 iodine + polyvinylpyrrolidone, seafood 967
 5-iodouracil, phage T4 5590
 isatin-3-isothiosemicarbazone derivatives 8093
 isatin-3-thiocarbonylhydrazones derivatives 8093
 isatin-beta-thiosemicarbazone derivatives, Vaccinia virus 3717
 isatin beta-thiosemicarbazones 2968
 isoniazid-copper complex 7343

Antiviral agent(Contd),

kinetin, tobacco ringspot virus, cowpea 8608
 lamidamycin 4808
 litomycin, avian myeloblastosis virus DNA 8187
 long-chain alcohols 5585
 maleic acid, plant protection 9984
 maleic anhydride, plant protection 9984
 marine algae extracts 8993
 marrow, tree bark extracts 5434
 N-methyl-N-arylthiourea derivatives 4686
 3-methylneoxindole, mengovirus 6522
 5-methylmercapto-2-deoxyuridine, herpes simplex virus 2127
 1-methylpseudouridine, herpes virus 5113
 6-MFA, foot-and-mouth disease virus 6516
 migillin, foot-and-mouth disease virus 2262
 migillin, poliovirus 2262
 neotropin 1322
 Ophiorrhiza mungos extract, camptothecin, 10-methoxycamptothecin 8995
 3-oxo-pregna-4,17(20)-dien-20-carboxylic acid 9441
 ozone, poliovirus, sewage 697
 Penicillium stoloniferum fast-moving virus 521
 persistent infection cell culture test 3711
 phenanthrene derivatives 525
 phenanthridinone derivatives 525
 N-phenyl-N-arylthiourea derivatives 8998
 phenylenedimethylene diamines 10181
 phosphonoacetic acid, herpes simplex virus 8085
 phosphonoacetic acid, herpes virus 1243
 piperonyl butoxide, potato spindle tuber viroid, potato 9985
 plant extract, influenza virus 1240
 plant extracts 10186
 plant growth regulators, cucumber mosaic virus, chilli 3555
 plant protection 3592
 plaque reduction test 3711
 poly(7-deazainosinic acid)-poly(5-bromocytidylic acid) 5583
 poly(7-deazainosinic acid)-polycytidylic acid 5583
 poly-L-lysine, tobacco mosaic virus 3535
 polyguanydic inosinic acid-polycytidylic acid 5582
 polyguanylic acid, murine leukaemia virus 3715
 polyinosinic acid-poly(5-bromocytidylic acid) 5583
 polyinosinic acid-polycytidylic acid 5583
 polyinosinic acid-polycytidylic acid, herpes simplex virus 8089
 polymeric biguanide, plant protection 405
 polyanthylidic acid, murine leukaemia virus 3715
 purine sugar derivatives 1245
 pyranone derivatives 525
 pyrazofurin acylates 2138
 pyrazolocholine derivative BL-20803 5581
 pyrimidine derivatives, influenza virus 523
 pyrimidine derivatives, mengovirus 4682
 quinazolinone derivatives 4684
 rhizopin 1438
 Rhododendron aureum extract, influenza virus 8994
 ribavirin 3712
 ribavirin, herpesvirus 10185
 ribavirin, murine cytomegalovirus 3713
 ribavirin triphosphate, influenza virus 9000
 rifampin, vaccinia virus 4774
 rifamycin 1322
 rifamycin SV derivatives, avian myeloblastosis virus 4772
 rifamycin SV derivatives, Friend Leukaemia virus 10265
 RNA complexes 8084

Subject index

Antiviral agent (Contd),

RNA, interferon 7340
 selenosemicarbazone derivatives, influenza virus 7344
 shiitake/nameko/enokidake, tobacco mosaic virus, plant protection 1694
 sirodesmin A 7451
 sirodesmin E 7451
 sirodesmin C 7451
 sirodesmin G 7451
 sodium dodecyl sulphate, tobacco mosaic virus, tobacco/bean 5435
 solvents, mycophage 3182
 statolon 518
 streptovarinin, Friend leukaemia virus 10265
 streptovarinin isomers 1443
 streptovirudin, parainfluenza virus 10407
 theophylline derivatives 8091
 thiadiazole derivatives 8087
 thiosemicarbazone derivatives, influenza virus 7344
 thiotepe, influenza virus 5591
 thioxanthene bis-basic ketones 1248
 tilorone analogues 8086
 tilorone hydrochloride, Venezuelan equine encephalitis virus 5587
 triazole derivatives 8088
 trifluorothymidine derivatives, vaccinia virus 2966
 triton X, tobacco mosaic virus, tobacco/bean 5435
 tunicamycin 4828
 Tween 80, tobacco mosaic virus, tobacco/bean 5435
 viral RNA 2334
 virazole, potato virus X, tobacco 7985
 watermelon 8825
 wine 4672
 xanthene bis-basic esters/bis-basic amides 1247
 xanthene bis-basic ketones 1249
 xanthone bis-basic esters/bis-basic amides 1247

Aphanomyces,

soil 3632

Aphanomyces euteiches,

kievitone 2000
 oospores, parasitic microorganisms, soil 8881
 pea, dinitramine 6353
 pea, fungicide 377
 pea, herbicide 7968
 pea, pisatin 1857
 pea, resistance testing 6329
 pea, trifluralin 6353
 soil, mycoparasitism, *Hyphochytrium catenoides* 5480
 thiazinium derivatives 3725

Aphelandra squarrosa,

extracts, antibacterial agent 10141

Aphicide,

Phytophthora infestans, potato 2008

Aphid,

barley yellow dwarf virus, barley 4322 7119
 broccoli necrotic yellows virus, cauliflower 5366
 citrus tristeza virus 2721
 cucumber mosaic virus, bean 257
 cucumber mosaic virus, *Macroptilium atropurpureum*/*Macroptilium lathyroides* 257
Fusarium roseum, alfalfa 6174
Fusarium roseum, red clover 6174
Fusarium roseum, white clover 6174
 parsnip yellow fleck virus, anthriscus yellows virus 1832 1833
 pea leaf roll virus, legumes 2667
 potato leaf roll virus, potato, insecticide 1097
 potato virus Y, *Datura metel*/pepper 1059
 potato virus Y, oil emulsion, potato 9953

Aphid(Contd),

sugarbeet yellows virus, sugarbeet, insecticide 365
 watermelon mosaic virus, marrow, aluminium foil 6346

Aphis craccivora,

pea leaf roll virus, legumes 2667

Aphis gossypii,

citrus tristeza virus 2721
 potato virus Y, *Datura metel*/pepper 1059

Aphrodes bifinctus,

aster yellows, celery 7910
 clover yellow edge agent, clover 262

API-20 Enteric System,

Salmonella/Enterobacteriaceae, food 9534

API 20C system,

yeasts 9290 10610

API-20E system,

blood culture bacteria 5835
 Enterobacteriaceae 2377 10557 10559

A.P.I. Lactobacillus system,

Pediococcus 8279

API system,

anaerobic bacteria 3958

API test,

bacteria 10543

API test system,

Aeromonas formicans 10558
Aeromonas hydrophila 10558
 Enterobacteriaceae 10558
Plesiomonas shigelloides 10558

API ZYM system,

bacterial enzymes 9260

Apiary,

Bacillus larvae, ethylene oxide sterilisation 3738
 ethylene oxide sterilisation, American foulbrood disease 2980

Apium graveolens,

aster yellows, leafhopper 7910
 celery mosaic virus 3499
Erwinia carotovora 6259
Erwinia carotovora, cupric hydroxide 6259
Mycocentrospora acerina 5368
Mycocentrospora acerina post-harvest decay 5368
Pythium polymorphon, nematode 1918 7911
 Septoria, cupric hydroxide 6259

Aplasmomycin,

Streptomyces griseus, antibacterial agent 5717

Aponatamycin,

natamycin 4815

Apoplexy,

Pseudomonas syringae/*Cytospora cincta*, apricot 2720

Apple,

Acremonium implicatum post-harvest decay 4431
 apple proliferation, mycoplasma-like organism 4361
 apple stem grooving virus 6239
Armillaria mellea, plant protection 7136
Aspergillus niger post-harvest decay 8748
Ceratocystis major post-harvest decay 4431
Clitocybe tabescens, plant protection 7136
Corticium galactinum, plant protection 7136
 decline 6239
Erwinia amylovora 297 5343 5344
Erwinia amylovora phage 5342
Erwinia amylovora, streptomycin 2028
Erwinia amylovora, streptomycin resistance 2822
Gloeosporium 4292
Gloeosporium album 7900
Gloeosporium perennans 7900
Nectria galligena 7137
Nectria galligena post-harvest decay, antifungal agent 5396

Subject index

Apple (Contd),

- Nodulisporium hinnuleum post-harvest decay 4431
- Penicillium expansum post-harvest decay 5397
- Penicillium expansum post-harvest decay, fungicide 8749
- Phomopsis mali post-harvest decay 6317
- Phytophthora cactorum, plant protection 7136
- Phytophthora cambivora, plant protection 7136
- Podosphaera leucotricha, diphenyl pyrazolium derivatives 1114
- Podosphaera leucotricha 2664 4290 4291 4292
- Podosphaera leucotricha, 2-aminopyrimidine derivatives 395
- Podosphaera leucotricha, benomyl + oil adjuvant 2791
- Podosphaera leucotricha, fungicide 1101 2795 2796
- Podosphaera leucotricha, imidazo-pyrimidine derivatives 4512
- Podosphaera leucotricha, pyrazolium derivatives 2812 4511
- Podosphaera leucotricha, tri-2-norbornyltin derivatives 6363
- Podosphaera leucotricha, triazinedione derivatives 1119
- Podosphaera leucotricha, triforine 3586
- Podosphaera leucotricha, diphenylamine derivatives 392
- post-harvest decay, antifungal agent 5396
- post-harvest decay, Leptothyrium pomi 1087
- post-harvest decay, Penicillium claviforme 1967
- post-harvest decay resistance, phenolic compounds 343
- post-harvest decay, Rhizopus arrhizus, fungicide 1965
- post-harvest decay, Trichothecium roseum 1188
- proliferation disease, mycoplasma-like organism, fluorescence microscopy 1047
- replant disease 8660
- resistance, Erwinia amylovora 5343
- resistance, Gymnosporangium juniperi-virginianae 6338
- resistance, Venturia inaequalis 4454 5347
- Sclerotium rolfsii, plant protection 7136
- Spiloea pomi conidia, Venturia inaequalis 1898
- tomato ringspot virus 6239 9824
- Trichothecium roseum post-harvest decay 7184 7185
- Trichothecium roseum post-harvest decay, trichothecine, trichothecolon 8750
- union necrosis 6239
- Venturia inaequalis 1899 2718 2719 4290 4291 4292 5345 5346 5347 9825
- Venturia inaequalis, 2-aminopyrimidine derivatives 395
- Venturia inaequalis, benomyl + oil adjuvant 2791
- Venturia inaequalis, benomyl tolerance 5431
- Venturia inaequalis, benzimidazole resistance 398
- Venturia inaequalis, benzimidazole tolerance 3571 7213 9980
- Venturia inaequalis, diphenyl pyrazolium derivatives 1114
- Venturia inaequalis, fungicide 2795 2796
- Venturia inaequalis, pyrazolium derivatives 2812 3581 4511
- Venturia inaequalis, thioallophanate derivatives 391
- Venturia inaequalis, tri-2-norbornyltin derivatives 6363
- Venturia inaequalis, triforine 3586
- virus 296
- Xylaria mali, plant protection 7136
- Zygophiala jamaicensis 8598
- Apple juice,
 - Byssochlamys fulva, heat resistance 2618
 - Byssochlamys nivea, heat resistance 2618
 - patulin, sulphur dioxide 7829
 - patulin, thin-layer chromatography 8572 9717
 - yeast 1705
- Apple mosaic virus,
 - dodder transmission 1610
 - rose 4413
- Apple pomace,
 - grape must/wine 103
- Apple proliferation,
 - mycoplasma-like organism, apple 4361
- Apple stem grooving virus,
 - apple 6239
- Apramycin,
 - 2171
 - Streptomyces tenebrarius 628
- Apricot,
 - Agrobacterium tumefaciens, biological control 401 7219
 - apricot chlorotic ringspot, Mycoplasma 9826
 - Armillariella mellea, plant protection 9827
 - canned, flame sterilisation 2617
 - Cytospora cincta 2720
 - Cytospora cincta, plant protection 9827
 - Cytospora leucostoma 9818
 - Eutypa armeniaca, benomyl 7983
 - Eutypa armeniaca 3493 7866 9872
 - Eutypa armeniaca, plant protection 9827
 - fruit blemish, benomyl 4518
 - Fusarium solani 8661
 - Mycoplasma, plant protection 9827
 - Phytophthora, plant protection 9827
 - Pseudomonas syringae 2720
 - Pseudomonas syringae, plant protection 9827
 - Sclerotinia laxa 1900
 - Stereum purpureum, plant protection 9827
 - Tranzschellia pruni-spinosae 9820
 - Verticillium dahliae, plant protection 9827
 - Xanthomonas pruni, fungicide 9958
- Apricot chlorotic ringspot,
 - Mycoplasma, apricot 9826
- Apricot mosaic virus,
 - dodder transmission 1610
- Aquaculture,
 - closed-system, salmon, columnar denitrification 4873
- Aquarium,
 - fish, Salmonella 1527
 - water purification, biological filter 1502
 - water, Salmonella 1527
- Aquatic bacterium,
 - culture, tritiated thymidine 2373
- Aquatic grass,
 - rhizosphere, nitrogen fixation 3644
- Aquella virus concentrator,
 - poliovirus, sewage 3875
 - tap water 3896
- Aquilegia vulgaris,
 - Erysiphe aquilegiae 304
- Ara-A,
 - see Adenine arabinoside
- Ara-C,
 - acyl derivatives, antiviral agent 5588 5589
- 1-beta-D-arabinofuranosyl cytosine,
 - antiviral agent 522
- 9-beta-D-Arabinofuranosyladenine,
 - see Adenine arabinoside
 - + interferon, herpes simplex virus 4678
- Arabinofuranosylcytosine,
 - derivatives, fungicide 8989
- 1-beta-D-arabinofuranosylcytosine,
 - acyl derivatives, antiviral agent 5588 5589
- 1-beta-D-arabinofuranosylthymine,
 - herpes simplex virus 10184
- Arabis alpina,
 - cucumber mosaic virus + cabbage black ring virus 8676

Subject index

- Arabis mosaic virus,**
 ivy 250
 jasmine 25C
 Laburnum vossii 250
 poplar 250
 Spiraea douglasii 250
 tulip 7182
 white ash 250
- Arabis turrita,**
 cucumber mosaic virus + cabbage black ring virus 8676
- L-arabitol,**
 Corynebacterium, aldopentose reductase 2448
- Araceae,**
 virus diseases 8674
- Arachia mottle virus,**
 peanut 5308
- Arachis hypogaea,**
 + Rhizobium, nitrogen fixation 4582
 + Rhizobium/seed treatment 445
 aflatoxin B1, minicolumn chromatography/thin-layer chromatography 3433
 aflatoxin, Monte Carlo method 2626
 aflatoxins 982 1807 5272 5273 7060 9703
 aflatoxins, spectrofluorometry 5274
 Arachia mottle virus 5308
 Aspergillus flavus 265 1014 1852 5273
 Aspergillus flavus, aflatoxins 9708
 Aspergillus niger 1852 2679 5273
 Aspergillus niger, fungicide 9959
 Aspergillus oryzae 2595
 Aspergillus parasiticus 2595
 Calonectria crotalariae, aerial infrared imagery 6191
 Cercospora arachidicola 7114
 Cercospora arachidicola, chlorothalonil 2016
 Cercospora personata, carbendazim 4516
 Cercospora personata, thiabendazole 4516
 Cercosporidium personatum, chlorothalonil 2016
 disease resistance 2776 2777
 fungi/mycotoxins 2773
 Fusarium/Rhizoctonia/Sclerotium, fungicide 266
 groundnut rosette virus 9768
 Leptosphaerulina crassiasca 6193
 meal, aflatoxins, formaldehyde + calcium hydroxide 228
 Neurospora sitophila 2595 3407
 nodules, groundnut chlorotic spot virus 1013
 oligophthora, virus 1851
 peanut clump virus 3467
 Phoma glomerata 2680
 pod rot fungi 6192
 pod rot fungi, plant protection 6345
 press cake, fermentation 3408
 Puccinia arachidis 1853 6194 8611
 Puccinia arachidis, fungicide 8612
 resistance, Cercospora arachidicola 1979
 resistance, Cylindrocladium crotalariae 8766
 Rhizoctonia bataticola, dextranase 1835
 Rhizoctonia solani 1015
 Rhizopus oligosporus 2595 3407
 rhizosphere, mycoflora 6421
 Sclerotium rolfsii 1015
 Sclerotium rolfsii,
 cyanomethylmercuri)guanidine 2011
 Sclerotium rolfsii, dinoseb 9957
 Sclerotium rolfsii, fensulfothion 2086
 Sclerotium rolfsii, fungicide 9960
 Sclerotium rolfsii, oxadiazon 9957
 seed, Aspergillus flavus 1838
 soil, Aspergillus flavus/Aspergillus niger 433
 soil, Cylindrocladium crotalariae, elutriator 1167
 Uredo arachidis 2662
 Verticillium 6195
 witches broom, mycoplasma 5308
- Arachnia propionica,**
 antibacterial agent 7369
 antibiotics 7369
- Arachnomyces,**
 cephalosporin 6568
- Arachnomyces minimus,**
 deacetoxyccephalosporin C 10282
- Ara-san,**
 Operculella padwickii 1100
- Araucaria angustifolia,**
 Fusarium robustum 7998
- Arbovirus,**
 adamantane derivatives 4680
 carbazole derivatives 2128
 dihydroxyanthraquinone derivatives 7342
 phenanthrene derivatives 525
 phenanthridinone derivatives 525
 pyranone derivatives 525
 thioxanthene bis-basic ketones 1248
 xanthene bis-basic esters/bis-basic amides 1247
 xanthene bis-basic ketones 1249
 xanthenone bis-basic ketones 1249
 xanthone bis-basic esters/bis-basic amides 1247
- Arbovirus vaccine,**
 6664
- Arceuthobium americanum,**
 resin disease, fungi 4543
- Archangium gephyra,**
 arid soil 2858
- Areca catechu,**
 Colletotrichum gloeosporioides 8679
 Phyllosticta hesperidiaeum 1836
 Phytophthora arecae 3506
- Arecanut,**
 Phytophthora arecae 3506
- Aremyxin,**
 antibacterial agent 2969
- Arenavirus,**
 antiviral agent 2122
- Arenavirus vaccine,**
 2279
- Arene oxide,**
 fungi 5144
- Arene oxide isomerase,**
 fungi 5144
- Argemone mexicana,**
 Cercosporidium guanicense 4394
 Deightonella argemonensis 4394
- L-arginase,**
 Corynebacterium 5051
- Arginine,**
 Arthrobacter 3230
 bacteria 5895
 Brevibacterium 3230
 culture medium, Mycoplasma 3212
 degradation, Enterobacteriaceae, Nessler's reagent 4936
 Enterobacteriaceae 5895
 Mycobacterium 3230
 Pseudomonas 5895
- L-arginine,**
 2-methyl-, Streptomyces 1424 1425
 Bacillus subtilis 9330
 Brevibacterium flavum 814
 poly-, tobacco mosaic virus 3535
- Arginine dihydrolase,**
 Pseudomonas, modified sutter's medium 9282
- Arglecin,**
 Streptomyces toxytricina 5145
- Arhan mosaic virus,**
 pigeon pea 3468
- Arhar,**
 arhar mosaic virus 3468 3469
 Colletotrichum truncatum 2681
- Arhar mosaic virus,**
 pigeon pea 3469
- Arisaema triphyllum,**
 extracts, antibacterial agent 10141

Subject index

- Aristeromycin**,
derivatives 5718
- Aristida oligantha**,
rhizosphere bacteria, nitrogen fixation,
Rhizobium/Azotobacter 2075
- Aristotelia serrata**,
Erysiphe polygoni 2664
- Arizona**,
catfish 7774
sulphamethoxazole-trimethoprim 2941
turkey faeces, oxytetracycline feed 7042
- Arizona arizonae**,
cephalosporin derivatives 5665
- Arizona paracolon**,
triorganotin compounds/triorganolead
compounds 2129
- Armillaria**,
Eucalyptus globulus 8007
Eucalyptus oblique 8007
- Armillaria mellea**,
4530
apple, plant protection 7136
conifers 5446
cork oak 10015
Eucalyptus 6397
Eucalyptus globulus 8007
Eucalyptus oblique 8007
grand fir, wetwood 7235
heat treatment/drying/biological control,
soil/Citrus 1997
Monterey pine 9999
Norway spruce 8853
ponderosa pine 5451 9999
willow 10018
wood, pseudosclerotial plate 8864 10024
wood, scanning electron microscopy 6400
- Armillaria novae-zelandiae**,
toetoe, radiate pine 5452
- Armillaria tabescens**,
cork oak 10015
- Armillariella mellea**,
apricot, plant protection 9827
Rocky Mountain juniper 5450
- Armillator**,
Armillariella mellea, forest soil 1121
- Aroclor**,
Aspergillus flavus 4576
estuarine microorganisms 724
- Aroma compound**,
champagne yeast 897
L-citronellol, DL-citronellal reduction,
fungi 7685
Cladosporium cladosporioides 7686
esterification, Candida cylindracea lipase
8369
isoamyl acetate, Cladosporium cladosporioides
9477 9478
microbial 8425
mushroom 7029
- Aromatic aminotransferase**,
Bacillus subtilis 1450
- Arrest**,
Sclerotinia borealis, bentgrass 8795
Typhula FW, bentgrass 8795
- Arsanilate**,
sodium, pig feed, swine dysentery 954
- Arsenate**,
arsenite oxidation, Alcaligenes faecalis,
sewage 2306
arsenite oxidation, Alcaligenes, soil 2860
resistance, Pseudomonas aeruginosa, +
antibiotics resistance 7294
resistance, Staphylococcus aureus 5533
- Arsenic**,
resistance, bacteria 7293
- Arsenicum album**,
Pestalotia psidii, guava post-harvest decay
9915
- Arsenite**,
oxidation, Alcaligenes faecalis, sewage 2306
- Arsenite (Contd)**,
oxidation, Alcaligenes, soil 2860
Phomopsis viticola, grapevine 9966
- Artabotrys odoratissimus**,
Haplosporella beaumontiana 2663
- Artek plate counter**,
milk 914
- Arthrobacter**,
Actinomyces recifensis lytic enzyme 2480
activated sludge, non-ionic surfactant
degradation 1709
amino acids 3230
4-chlorobenzoic acid degradation 4171
p-chlorophenylacetate degradation 120
1,2-dehydrogenation, D-homosteroid 5978
dry sausage 3400
beta-galactosidase 8361
beta-1,3-glucanase 3274
glucose isomerase, glucose, fructose 5107
histosol, nitrification 7267
hydrocarbon degradation, sea water 2912
isoamylase 9404
L-lysine 817
mesquite 822
neuraminidase 5078
Pacific shrimp 7020
pasteurised milk 7799
purine degradation 119
raised bog soil 6412
rhizosphere, molybdenum 6415
Saccharomyces fragilis cell wall lytic enzyme
9416
soil, 2,4,6-collidine degradation 3364
soil, 2-ethylpyridine degradation 3364
soil, growth factor 7682
soil, 2,4-lutidine degradation 3364
soil, phthalic acid degradation 2057
soil, phthalic acid/isophthalic
acid/terephthalic acid 10049
soil, tests 3968
squalene oxidation 6984
sublimation dehydration preservation 2981
terpene oxidation 6984
D-xylose dehydrogenase 8397
- Arthrobacter citreus**,
Aristida oligantha rhizosphere, nitrogen
fixation, Rhizobium/Azotobacter 2075
- Arthrobacter crystallopoietes**,
catechol 1,2-dioxygenase, 3-methylcatechol
5924
- Arthrobacter globiformis**,
ephedrine degradation 900 8455
exo-alpha-1,6-glucosidase 2470
pyruvate carboxylase 8393
L-serine dehydratase 6924
- Arthrobacter oxamicetus**,
oxamicetin 3073
- Arthrobacter oxidans**,
soil 10037
- Arthrobacter poscens**,
catechol 1,2-dioxygenase, 3-methylcatechol
5924
- Arthrobacter pyridinolis**,
soil, pigment, 2-hydroxypyridine degradation
4129
- Arthrobacter simplex**,
Aristida oligantha rhizosphere, nitrogen
fixation, Rhizobium/Azotobacter 2075
biomass 2457
choline esterase 2457
cholinesterase, culture medium 22
cysteine desulphhydrase, L-cysteine 6829
1,2-dehydrogenation, D-homosteroid 5978
- Arthrobacter viscosus**,
polysaccharide 2515
- Arthrobotrys**,
jute seed, seed dressing fungicide 2825
- Arthrobotrys cladodes**,
rice seed 1880

Subject index

- Artichoke,**
globe, *Leveillula* 4297
Jerusalem, *Cercospora bidentis* 6252
- Aryl-5-fluoro-2-methoxyphenyl ketone,**
fungicide 3710
- Aryl acylamidase,**
Bacillus sphaericus, acylanilide degradation 901
Bacillus sphaericus, linuron degradation 901
Bacillus sphaericus, phenylcarbamate degradation 901
Bacillus sphaericus, protham degradation 901
- Aryl-beta-glucosidase,**
Fomes annosus, Norway spruce root constituents 2845
- Arylsulphatase,**
Klebsiella aerogenes 5922
Mycobacterium, assay, umbelliferone derivatives, septroradiometry 8276
Pseudomonas C12B 9363
- Arylsulphinyl-alkylthiocyanate,**
fungicide 2951
- Arylsulphonyl-alkylthiocyanate,**
fungicide 2951
- Arylsulphonylacetic acid hydrazide,**
derivatives, antibacterial agent/antitubercular agent 8985
- Asbestos filter,**
aflatoxin B1 981
- Ascobolus denudatus,**
Scots pine leaf litter, urea/urine 2035
- Ascochyta,**
8291
pea 9766
willow 10018
- Ascochyta caricae,**
papaya post-harvest decay, fungicide 2772
- Ascochyta caulicola,**
sweet clover 4304
- Ascochyta cucumeris,**
chlamydospore, soil 4575
- Ascochyta cucumis,**
pumpkin 4411
- Ascochyta jenissensis,**
8291
- Ascochyta pinodella,**
pea 9766
- Ascochyta pisi,**
Fusarium 9766
pea 9766
pea, pisatin 6350
- Ascochyta rabiei,**
gram 1850 2675
gram, fungicide 2799
- Ascochyta soyaecola,**
aculeacins 8175
- Ascochyta tritici,**
wheat 3488
- Ascochyta viciae,**
ascofuranone 2250
- Ascofuranone,**
Norway spruce, *Fomes annosus* 7237
Scots pine 2038
- Ascofuranone,**
Ascochyta viciae 2250
- Ascomycetes,**
degradation, insoluble polymers 116
furoic amide derivatives, plant protection 8813
phosphonate derivatives, plant protection 8809
- Ascorbic acid,**
see Vitamin C
analogues, *Serratia marcescens* 3341
Vibrio parahaemolyticus 1763
- Ascomycete sarcoides,**
Norway spruce 8004
- Ascosin,**
yeasts 2170
- Asepsis,**
hospital 4893
- Aseptic container,**
pharmaceutical 2984
- Aseptic dairy product,**
6124
- Aseptic filling,**
pharmaceutical 2985
- Aseptic filling device,**
8105
- Aseptic harvesting,**
bacteria, tangential flow filtration 3176
- Aseptic packaging,**
food 6122 7048
food, air microflora 738
food, ultraviolet sterilisation 9664
medical instrument 2161
milk 8532 8533 8534 8535 8537 9669
milk product 8536
pharmaceutical 2984
ultra-high-temperature milk 4235
- Aseptic plantlet culture,**
asparagus 1993
- Aseptic sampling,**
automated, + storage system, microbial culture 4916
- Aseptic slicing,**
food 8525
- Aseptic tank,**
215
- Aseptic technique,**
sterile beef tissue 2580
- Ash,**
Nectria galligena, apple 7137
white, arabis mosaic virus 250
- Asp-haemolysin,**
Aspergillus fumigatus 8567
- Aspalathus linearis,**
+ *Rhizobium*, nodulation, nitrogen fixation 8028
lectins, + *Rhizobium*, nitrogen fixation 8899
- Asparaginase,**
Azotobacter vinelandii, antitumour enzyme 5994
- L-asparaginase,**
Citrobacter freundii 6865
Erwinia aroideae 5042
Erwinia carotovora 875
Erwinia carotovora, antitumour agent 8414
Escherichia coli 875 5995 8412 9454
Escherichia coli, antitumour agent 8414
Escherichia coli/*Erwinia carotovora* 2524
Escherichia coli, immobilisation 826
immobilised, *Escherichia coli*, antitumour agent 4123
Mycobacterium phlei 68
Pseudomonas ovalis 5951
Staphylococcus 8413
- Asparaginase-L-glutaminase,**
Acinetobacter glutaminasificans 9403
Pseudomonas 9403
Pseudomonas 7A 876
- L-Asparaginase-glutaminase,**
Citrobacter freundii 6865
Pseudomonas acidovorans, antitumour enzyme 5121
- Asparagine deamidase,**
Pseudomonas boreopolis 10528
- Asparagus,**
aseptic plantlet culture 1993
Fusarium, DD-MENCS soil fumigation + fungicide 9965
viruses 9849
- Asparagus officinalis,**
aseptic plantlet culture 1993
Fusarium, DD-MENCS soil fumigation + fungicide 9965
viruses 9849
- Asparagus virus 1,**
Chenopodium quinoa 8686

Subject index

Aspartase,

- Bacillus subtilis 5052
- immobilised Escherichia coli 9364
- immobilised Escherichia coli, L-aspartic acid 3231

L-aspartase,

- Enterobacter aerogenes, immobilization 4056

Aspartate aminotransferase,

- Pediococcus cerevisiae 5053

Aspartic acid,

- Arthrobacter 323C
- Brevibacterium 3230
- broad bean mosaic virus 8996
- broad bean mosaic virus, broad bean 3591
- Candida tropicalis, hydrocarbon 485
- Mycobacterium 3230

L-aspartic acid,

- Brevibacterium 9331
- Corynebacterium 9331
- immobilised Escherichia coli aspartase 3231
- Pseudomonadaceae 4037

Aspartokinase,

- Bacillus brevis 1641

Aspen,

- Cytospora chrysosperma 2043
- Cytospora nivea 2043
- Fusicladium radiosum/Pollaccia radiosa/Venturia macularis 2046
- Hypoxylen mammatum, Saperda inornata 5454
- resistance, Hypoxylen mammatum 5455
- Steccherinum oreophilum 10010
- trembling, Hypoxylen mammatum 415
- Valsa sordida 2043
- Valsa vinea 2043

Aspergillopepsin A,

- Aspergillus awamori 6866

Aspergillus,

- aliphatic diol diesters 3720
- allicin 7332
- ammonium/potassium isobutyrate 1257
- bakery dust 9172
- barley seed, beer 7697
- bean seed, seed treatment 1859
- biomass/protein, ethanol 2428
- biomass/protein, methanol 2428
- blueberry post-harvest decay 5398
- carbamate derivatives 510
- cellulase, cellulose waste, protein 5898
- cotton seed 2737
- diaryl-pyridyl-imidazole methanes 4671
- enzyme immobilization 2
- fermented food 4190
- food 7718
- food, mycotoxins 8467
- frozen food 6026
- fuel tank, organic acids 4617
- glucose dehydrogenase,
- D-gluconic-delta-lectam 1435
- heat resistance 10114
- imidazolyl-O,N-acetal derivatives 3704
- koji, glucosamine assay 9605
- malt, beer gushing 5167
- meat/meat product 8505
- multinuclear giant cells, tunicamycin 8196
- mycotoxins 973
- mycotoxins, animal mycotoxins 3427
- mycotoxins, neutralisation, ethylene oxide/methyl formate 4253
- paint film degradation 4176
- paint film degradation, enzymes 4177
- Parthenium hysterophorus
- rhizosphere/rhizoplane 3635
- pharmaceutical cream, peracetic acid sterilisation 2799
- progesterone hydroxylation,
- 11alpha-hydroxyprogesterone 4115
- quaternary ammonium compound 2961
- rapamycin 1437
- refrigerated food 9651
- rice rhizosphere, pesticides 8916

Aspergillus(Contd),

- rice seed 1280
- slime, fibreboard industry 10471
- soil 3638 6426
- soil, cadmium 8018
- soil, fungistasis, ethylene 2861
- soil, nematicide 3653
- soybean seed 4310
- thiolacetic acid derivatives 3723
- tree bark fermentation, fertiliser 7488
- triazino-benzimidazole derivatives, plant protection 3588
- triazole derivatives 2960
- Aspergillus aculeatus,**
- aculeacin A, antifungal agent 10348 10350
- aculeacin E/aculeacin C/aculeacin D/aculeacin E/aculeacin F/aculeacin G, antifungal agent 10349
- aculeacins, antifungal agent 8175
- Aspergillus amstelodami,**
- aflatoxins, pistachio nut 5277
- beer gushing 99
- forage post-harvest decay 8747
- malt, beer gushing 5167
- neoechinulin A/neoechinulin E/neoechinulin C/neoechinulin D/neoechinulin E 10390
- oil palm kernels 4220
- plastics degradation 2553
- toxin, country-style ham 7825
- Aspergillus aculeatus,**
- secalonic acid D 7832
- secalonic acid F 7832
- Aspergillus aurantio-brunneus,**
- sterigmatocystin 8574
- Aspergillus aureofulgens,**
- alpha,beta-dehydrocucurularin 8428
- Aspergillus aureus,**
- alpha-amylase 5050
- Aspergillus awamori,**
- alpha-amylase 8348
- amylglucosidase 17 9362
- apple juice-clarifying polygalacturonase 5082
- aspergillopepsin A 6866
- glucoamylase 8348
- glucoamylase, immobilization 8365
- macerase 5082
- endo-polygalacturonase 5082
- endo-polymethylgalacturonase 5082
- Aspergillus candidus,**
- barley grain, citral caproate/allyl caproate preservation, pig feed 9908
- culture filtrate, leaf litter soil fungi 10051
- milk 920
- pigeon pea rhizosphere 6422
- soil 6426
- soybean 9596
- terphenyllin/deoxyterphenyllin 239
- wheat post-harvest decay, antifungal agent 9962
- xanthoascins, structure 5281
- Aspergillus carneus,**
- soil, nitrification, benomyl 2874
- soil, nitrogen 2873
- Aspergillus chevalieri,**
- L-alanyl-L-tryptophan anhydride 8324
- antibiotic 3797
- forage post-harvest decay 8747
- large cardamon 4224
- oil palm kernels 4220
- Aspergillus cinnameus,**
- amylase 16
- Aspergillus clavatus,**
- biological control, Drechslera sorokiniana, oat 7202
- biological control, Drechslera sorokiniana, wheat 7202

Subject index

Aspergillus clavatus(Contd),

biological control, *Fusarium culmorum*/Drechslera sorokiniana/Rhizoctonia solani, oat 1099 1099
 biological control, *Fusarium culmorum*, oat 7202
 biological control, *Fusarium culmorum*, wheat 7202
 biological control, *Rhizoctonia solani*, oat 7202
 biological control, *Rhizoctonia solani*, wheat 7202
 deoxynortryptoquivaline 7076
 deoxynortryptoquivalone 7076
 deoxytryptoquivaline 7076
 nortryptoquivaline 7076
 nortryptoquivalone 7076
 pigeon excrement, stone degradation 4183
 soil 6426
 toxins, barley, animal feed 5262
 tryptoquivaline 7076

Aspergillus deflectus,

desferriacetylusigen, antibacterial agent 10365
 soil 2866

Aspergillus fischeri,

soil 1166
 soil, cadmium 8018

Aspergillus flavipes,

cotton seed 2737
 flavipucine 637
 soil 3638 6426

Aspergillus flavus,

231
 aflatoxin, acid-treated corn 2623
 aflatoxin B1 980 6133
 aflatoxin B1/aflatoxin B2 4257
 aflatoxin B1, corn 7820
 aflatoxin B2 6133
 aflatoxin B2, aflatoxin B1 9693
 aflatoxin, bread, culture medium 6139
 aflatoxin, copra food 2624
 aflatoxin, corn 983 1804 1805 2622
 aflatoxin, food/animal feed 3431
 aflatoxin G1 6133
 aflatoxin G2 6133
 aflatoxin, ground spice 4262
 aflatoxin, pecan 4261
 aflatoxin, pistachio nut 227
 aflatoxin, Sorghum 1884
 aflatoxin, soybean 979
 aflatoxin, water activity 977
 aflatoxins 5264 6133 7808 8555 9692
 aflatoxins, apiarian substrates 7812
 aflatoxins, coconut-agar medium 5269
 aflatoxins, corn 7814
 aflatoxins, fatty acids 9701
 aflatoxins, kojic acid 5265
 aflatoxins, peanut 982 9708
 aflatoxins, peanut meal 5273
 aflatoxins, pistachio nut 5276 5277
 aflatoxins, silica gel medium 1801
 aflatoxins, temperature 7057
 aflatoxins, triglycerides 9701
 aliphatic diol diesters 3720
 aminopeptidase 2449 8352
 antibiotic A30641 2241
 aryl-5-fluoro-2-methoxyphenyl
 ketones/thiosemicarbazones 3710
 bakery dust 9172
 butylated hydroxyanisole 5592
 butylated hydroxytoluene 5592
 cellulase 7613
 chitin, chitin synthetase 4121
 corn, fluorescence, aflatoxins 6136
 corn kernels 6217
 cottonseed, isolation medium 8293
 culture filtrate, leaf litter soil fungi 10051
 Curcuma caesia oil 5567

Aspergillus flavus(Contd),

cyclopiazonic acid 4265
 diallyl-disulphide 388
 enzymes, aflatoxin 5045
 fennel rhizoplane, subamycin 2663
 fennel rhizosphere, subamycin 2663
 fenuqreek seed 1017
 fluorinated acridine derivatives 5577
 fluoroarylthiazole derivatives 2958
 food, acidified potato dextrose
 agar/non-acidified chlortetracycline potato
 dextrose agar 1591
 gamma irradiation + heat treatment, food
 preservation 213 214
 garlic oil 388
 glass-ceramic degradation 905
 groundnut 265
 guanidine derivatives 8041
 haloaromatics 8073
 halogenated oxadiazole-2-thione derivatives 5577
 gamma-irradiation, food preservation,
 aflatoxin 6121
 large cardamon 4224
 milk 920
 milk-clotting enzyme 3316
 mouldy grain, animal feed 3415
 mycotoxins, carbon-13 nuclear magnetic
 resonance spectroscopy 7054
 nitroperhydropridodiazepine derivatives 2976
 oil palm kernels 4220
 oxadiazole derivatives 1237
 paper degradation 2551
 peanut 1014 1852
 peanut, aflatoxins 2773
 peanut/rye soil 433
 phacidin 10398
 plant seed 1838
 plastics degradation 2553
 polychlorinated biphenyls 4576
 poultry feed, gentian violet 956
 propyl gallate 5592
 protease, beer wort 8443
 protease, hide treatment 8386 8387
 quaternary ammonium salt 470
 rhodanine derivatives 6514
 road-building lignin mineral powder
 degradation 8934
 road-building material 5507
 rye/wheat bread nutritive assay 7021
 rye/wheat/triticale nutritive value assay 5855
 safflower, seed treatment fungicide 8838
 soil 3638 6426
 soil, formalin fumigation 6453
 soil leaf litter, fungi, microbial culture
 filtrates 10051
 soil, nitrogen 2873
 soybean 9596
 sterigmatocystin, pecan nut 7835
 sulphanilamido-oxadiazole derivatives 10171
 tannase, tea concentrate/powder 943
 thiolacetic acid derivatives 3723
 toxin, animal feed 1799
 toxins, barley, animal feed 5262
 trifluoromethyl
 phenyl-3-(3',5'-dicyanophenyl)urea 2140
 wheat grain 9804

Aspergillus foetidus,

amylase, baked bean waste 8354
 apple juice-clarifying polygalacturonase 5082
 citric acid, brewery waste 7598
 macerage 5082
 endo-polygalacturonase 5082
 endo-polymethylgalacturonase 5082
 viral RNA, interferon/antiviral agent 3334
 virus, interferon 7337

Subject index

Aspergillus fumigatus,

- 2623
- acid-treated corn 2623
- aculeacins 8175
- Agaricus bisporus culture 9602
- aircraft fuel 476
- aircraft fuel, fungicide 7288
- aircraft fuel tank corrosion 7283
- alkaloid 6815
- antibodies, counter immunoelectrophoresis 10614
- beer gushing 99
- beta-trans-bergamotene, fumagillin 7688
- 3-bromoacetoxy tetrahydrofuran 533
- butylated hydroxyanisole 5592
- butylated hydroxytoluene 5592
- cassava, protein, food 2564
- clothes 110
- coal mine soil 2062 5479
- Curcuma zedoaria extract 3695
- cycloalkyl-4-oxoquinoline-3-carboxylic acid derivatives 2141
- econazole 2974
- enzymes 9350
- esterase, cephamycin derivatives 10283
- esterase, cephem-4-carboxylic acid 7400
- 5-fluorocytosine 5574
- Gloeophyllum sepiarium oospolactone 2538
- Grocott stain, tissue section 2391
- haemolytic toxin 8567
- large cardamom 4224
- malt, beer gushing 5167
- miconazole 2974
- mouldy hay, sedimentation chamber 3163
- nitroperhydropyridodiazepine derivatives 2976
- oil palm kernels 4220
- phacidin 10398
- pigeon excrement, stone degradation 4183
- potato, rishitin/lyubimin 4495
- propyl gallate 5592
- soil 3638 6426
- soil, formalin fumigation 6453
- soil, Rhizobium 3646
- supersonic aircraft fuel 4618
- thiocyano xanthate derivatives 2972
- toxin 974
- tree bark fermentation, animal feed 7488
- triadimefon resistance 3572
- triarimol resistance 3572
- trifluoromethyl phenyl-3-(3',5'-dicyanophenyl)urea 2140
- triflorine resistance 3572
- tryptotoxine derivatives 2539
- wheat grain 9804
- wood 7242
- wood chips degradation 10023

Aspergillus glaucus,

- food preservation 3421
- ground spice 4262
- soybean 9596
- sterigmatocystin, pecan nut 7835
- wheat post-harvest decay, antifungal agent 9962

Aspergillus gorakhpurensis,

- citric acid 8314

Aspergillus humicola,

- soil, formalin fumigation 6453
- Streptomyces volatile compounds 8986

Aspergillus itaconicus,

- soil 1166

Aspergillus janus,

- soil 1166

Aspergillus japonicus,

- aminopeptidase 4065
- plant tissue maceration stimulating factor 2531

Aspergillus luchuensis,

- pigeon pea rhizosphere 6422

Aspergillus luchuensis(Contd),

- soil, formalin fumigation 6453

Aspergillus nolleus,

- pigment, carbon-13 nuclear magnetic resonance spectroscopy 6948
- protease, beer wort 4157 4158
- soybean 9596

Aspergillus multicolor,

- sterigmatocystin 8574

Aspergillus nidulans,

- coal mine soil 5479
- conidiation 785
- echinocandin B, structure 4799
- ethidium bromide 7583
- fungicide resistance 5001
- beta-(1,3)-D-glucanase 3276
- large cardamom 4224
- methionine-binding protein 8
- methyl benzimidazol-2-yl carbamate degradation 5194
- penicillin 1346 3023
- phacidin 10398
- pigeon pea rhizosphere 6422
- protoplast 6822
- soil 3638 6426
- soil, formalin fumigation 6453
- soybean 9596
- sterigmatocystin 7808
- sterigmatocystin, water activity 977
- triadimefon resistance 3572
- triarimol resistance 3572
- triflorine resistance 3572

Aspergillus niger,

- 2,5-dihydroxy-1,4-benzoquinones 8082
- 3,5-dihalo-4-hydroxyacetophenones 8076
- abscisic acid 3698
- acetylenic sulphones 512
- acid-treated corn 2623
- aflatoxin B1 degradation, aflatoxin R0 8558
- aflatoxins, peanut 5273
- aflatoxins, pistachio nut 5277
- alkyltin cyclopropyl derivatives 1260
- alpha,omega-alkanedicarboxylic acids/alpha,omega-alkanedicarboxylic acid dimethyl esters 1231
- D-amino acid oxidase 5047
- alpha-aminolaurophenone/alpha-aminolaurophenone derivatives 5571
- amphotericin B, lipids 9053
- alpha-amylase 5918
- amylase, turbidimetric assay 6863
- amylglucosidase immobilisation 3255 5920
- antibiotics 2170
- antifungal agent, hydrogen peroxide 2953
- apple post-harvest decay 8748
- aryl-5-fluoro-2-methoxyphenyl ketones/thiosemicarbazones 3710
- bakery dust 9172
- beet waste treatment 6700
- benzene derivatives 2131
- benzisothiazolin-3-one derivatives 534
- bicyclic polyoxymethylene-oxazolidines 471
- botrytic acid 3698
- bread/sponge cake, propionic acid preservation 9684
- alpha-bromo-p-methylacetophenone + 1,3-dichloroacetone oxime acetate, industrial water system 10470
- 3-bromoacetoxy tetrahydrofuran 533
- caffeine 3698
- candihexin, Streptomyces viridoflavus 630
- epsilon-caprolactam + alkanediamine derivatives 2149
- epsilon-caprolactam + N-alkyl-propylene-diamine reaction products 8102
- epsilon-caprolactam + N-alkylalkylene diamine reaction product 3126
- carbamyloxy-benzamide derivatives 4691
- carbon substrate degradation 9521

Subject index

Aspergillus niger(Contd),

catalase, immobilisation 7612
 cellulase 7613 8356
 cellulase, silage 9634
 cellulase, waste cellulose, glucose 6876
 cellulolytic enzymes, cellulose waste 1645
 ceramide-phosphoinositol 6003
 alpha-chloro-o-acylbenzaldoxime derivatives,
 industrial water system 3891
 N-chlorocarboxylic acid derivatives 529
 cinnamyl phenols 532
 citric acid 808 1624 1625 3227 5019 5020
 5887 8315 8316
 citric acid fermentation flow-off,
 proteolytic enzyme 8384
 citric acid, ultrasound 8308
 contact lens sterilising solution 1284
 coumarin 3698
 cowpea seed 1848
 culture 4980
 culture filtrate, leaf litter soil fungi
 10051
 Curcuma caesia oil 5567
 Curcuma zedoaria extract 3695
 cyanodithioimidocarbonic acid derivatives
 1261
 diallyl-disulphide 388
 diaryl sulphonates 2957
 1,3-dichloroacetone oxime acetate +
 beta-bromo-beta-nitrostyrene, industrial
 water system 2320
 dihalo-sulphonate derivatives 7979
 dithiocarbamate derivatives 6526
 dopa decarboxylase-inhibiting isoflavone
 4147
 econazole 2974
 enzymatically-active protein cell membrane
 complex 5912
 enzymes 9350
 enzymes, food 134
 ephedrine 3698
 fennel rhizosphere, subamycin 2863
 fenugreek seed 1017
 fluorinated acridine derivatives 5577
 fluorinated ketone thiosemicarbazonones 2955
 fluorinated ketones 2955
 fluoroarylthiazole derivatives 2958
 5-fluorocytosine 5574
 food, acidified potato dextrose
 agar/non-acidified chlortetracycline potato
 dextrose agar 1591
 formaldehyde 5523
 fungicide 2053
 fungicide, industrial water system 1494
 fungicide resistance 5001
 furancarabamic acid esters 2143
 beta-galactosidase, low-lactose milk/milk
 product 7738
 beta-galactosidase, milk lactose 8486
 garlic oil 388
 giant cells, organelles 5017
 glass-ceramic degradation 905
 glucoamylase I 2467
 glucoamylase, immobilization 8365
 glucoamylase, starch granule hydrolysis,
 scanning electron microscopy 844
 gluconolactonase, maltose, gluconic acid
 6892
 glucose oxidase 4093
 glucose oxidase, D-gluconic-delta-lactam
 1435
 glucose oxidase, immobilisation 826
 glucose oxidase, immobilization 4057
 glucose oxidase, maltose, gluconic acid 6892
 beta-glucosidase, cellulose, Trichoderma
 viride cellulase, glucose 5068
 glutaraldehyde 6509
 grapevine 1931
 griseofulvin, lipids 9053
 ground spice 4262

Aspergillus niger(Contd),

haloaromatics 8073
 halocyanacetamide + haloacetic ester 1496
 halogenated oxadiazole-2-thione derivatives
 5577
 hemicellulolytic enzyme, soybean seed coat
 waste fermentation, methane bacteria,
 methane 10095
 hop oil emulsion, beer 5168
 hydrazino-pyridine derivatives 2139
 imidazolylacetic acid amides 515
 immobilisation 803
 insect feed, fungicide 6117
 iron-chlorin protein 4052
 isothiazolopyridinone derivatives 2975
 lactase, immobilisation, lactose hydrolysis
 9412
 large cardamon 4224
 lipase 853
 lipase, blue cheese 6061
 lipase, Cheddar cheese 7006
 lipase, 3,5-diacetoxycyclopent-1-ene
 hydrolysis 889
 malformin, assay, mung bean 4811
 malformin C 233
 malformin C, antibacterial agent 7068
 malic acid 3698
 mango post-harvest decay 9917
 mannanase 1660
 beta-mannosidase 6901
 mercurated sulphonamides 1262
 miconazole 2974
 milk 920
 monocyclic polyoxymethyleneoxazolidine 2090
 mouldy grain, animal feed 3415
 mycoacillin derivatives 10386
 N-acyl-aryl sulphonamides 2957
 natrium dehydroacetate 7333
 nicotinic acid ribonucleoside 9450
 nitroperhydropridodiazepine derivatives
 2976
 oil palm kernels 4220
 organic fluorine compounds 5575
 oxadiazole derivatives 1237
 oxalic acid, animal feed 8521
 oxazolidine derivatives 3703
 oxime esters 2148
 n-oxypridyl thiol aluminium derivatives 749
 papainum 3698
 paper degradation 2551
 paraldol 3721
 peanut 1852 2679
 peanut, aflatoxins 2773
 peanut, fungicide 9959
 peanut/rye soil 433
 pectin esterase 3302
 pectinases 3302
 Pellicularia sasakii/Pellicularia filamentosa
 cell wall-lysing enzyme complex 4072
 phacidin 10398
 phenyl-imidazolyl-fatty acid derivatives
 8078
 3-phenylindole 3707 3708
 phorate degradation 1711
 phosphatase 5088
 phospholipase c 40
 phosphoryl phenyldiamine derivatives 1118
 pigeon pea rhizosphere 6422
 pistachio nut 5276
 pistachio soil 5276
 plant extracts, plant protection 9956
 poly(ethyleneimine S-alkyldithiocarbamates)
 5570
 endo-polygalacturonase 3302
 exo-polygalacturonase 3302
 polyvinylchloride building sealant
 degradation 4279
 pomegranate post-harvest decay 8756
 potato mash saccharization, spirit 5181
 preventol 7333

Subject index

Aspergillus niger(Contd),

protease, beer wort 4157 4158
 protease, hide treatment 8286 8387
 quaternary ammonium compounds 2145 2146
 quaternary ammonium salt 470
 quinolizine-2-carboxylic acid derivatives 4694
 quinolizine derivatives 8100
 resistance, formaldehyde 5523
 rhodanine derivatives 6514
 ribofuranosyl-1,2,3-triazole derivatives 3727
 road-building lignin mineral powder degradation 8934
 road-building material 5507
 safflower, seed treatment fungicide 8838
 salicylic acid 3698
 sauerkraut brine treatment 6701
 slimicide, industrial water system 3124
 soil 3638 6426
 soil, cadmium 8018
 soil, carbofuran degradation 10076
 soil, formalin fumigation 6453
 soil leaf litter, fungi, microbial culture filtrates 10051
 soil, paraquat/diquat degradation 4602
 sorghum 1885
 sugarcane 1885
 sugars/sugar alcohols 5593
 sulphanilamido-oxadiazole derivatives 10171
 sulphonamide derivatives 6528
 sulphur oxidation,
 7-methylthioxanthone-2-carboxylic acid,
 7-methylsulphinylxanthone-2-carboxylic acid 9483
 tannase 5098
 tannase, tea concentrate/powder 943
 4,4,10,10-tetramethyl-spiro-[5,5]-undecane-2,8-dione hydroxylation 888
 thiazinium derivatives 3725
 thiocyanate derivatives 5569
 thiocyno xanthate derivatives 2972
 thionosalicylic acid anilide derivatives 3726
 transition metal dithiocarbamate complexes 3700
 triazole derivatives 2960
 trifluoromethyl
 phenyl-3-(3',5'-dicyanophenyl)urea 2140
 triforine 396
 viral RNA, interferon/antiviral agent 3334
 virus, interferon 7337
 wheat grain 9804
 endo-1,4-beta-xylanase 6928
 exo-1,4-beta-xylodase 6928
 yam post-harvest decay 6327

Aspergillus niveus,

soil 8020

Aspergillus ochraceus,

acylase, 7-aminocephalosporanic acid derivatives 2207
 aminoacylase, immobilisation 6858
 bakery dust 9172
 cardenolide hydroxylation 5104
 food, acidified potato dextrose agar/non-acidified chlortetracycline potato dextrose agar 1591
 halogeno-oxo-androstanes hydroxylation 58
 large cardamon 4224
 6-MFA, foot-and-mouth disease virus 6516
 milk 920
 ochratoxin A 235
 ochratoxin A, pistachio nut 5276
 penicillic acid 235
 soil 3638 6426
 soybean 9596
 toxins, barley, animal feed 5262

Aspergillus ornatu,

soil 6426

Aspergillus oryzae,

aminopeptidase 8352
 alpha-amylase 7609 9361
 amyloglucosidase 17
 amylolytic enzyme system 7610
 automated aseptic sampling + storage system 4916
 3-bromoacetoxy tetrahydrofuran 533
 culture 5164
 enzymatically-active protein cell membrane complex 5912
 enzyme, miso 6018
 enzymes, soy sauce 5183
 fermented soybean, Japanese quail feed 946
 frozen food 6026
 beta-galactosidase 6889
 large cardamon 4224
 limit dextrinase 3268
 lipase, blue cheese 6061
 lipase, Cheddar cheese 7006
 peanut 2595
 protease 7651
 protease, beer wort 8443
 serine proteinase, N-acyl-L-methionine 2424
 soil 6426
 soy sauce 9604
 soy sauce fermentation 4164
 sugars/sugar alcohols 5593
 takadiastase, sake 7702
 tannase, tea concentrate/powder 943
 thiocyno xanthate derivatives 2972
 trifluoromethyl
 phenyl-3-(3',5'-dicyanophenyl)urea 2140
 waste treatment 10466
Aspergillus parasiticus,
 aflatoxin 810 2625
 aflatoxin B1 5266 5267 5268
 aflatoxin, dichlorvos 6131
 aflatoxin, gamma-irradiated food 3432
 aflatoxin, 2-mercaptoethanol 4258
 aflatoxin, pecan 4261
 aflatoxin, soybean 979
 aflatoxin, water activity 977
 aflatoxin, zinc 7811
 aflatoxins 5264 7808
 aflatoxins, AMP/ATP/ADP 4256
 aflatoxins, apiarian substrates 7812
 aflatoxins, cinnamic aldehyde 10142
 aflatoxins, cinnamon oil 10142
 aflatoxins, clove oil 10142
 aflatoxins, coconut-agar medium 5269
 aflatoxins, couscous 4260
 aflatoxins, enzyme-linked immunocytochemical method 9694
 aflatoxins, eugenol 10142
 aflatoxins, papad 2589
 aflatoxins, silica gel medium 1801
 aflatoxins, temperature 7057
 averufin 3339
 corn, fluorescence, aflatoxins 6136
 enzymes, aflatoxin 5045
 kojic acid 810
 mycotoxins, carbon-13 nuclear magnetic resonance spectroscopy 7054
 peanut 2595
 phage 1802
Aspergillus penicilliformis,
 soil, nitrogen 2873
Aspergillus penicilloides,
 optical device 4851
Aspergillus phoenicis,
 amyloglucosidase 17
 endo-beta-glucanase, beer, wort 5946
 beta-glucosidase, cellulose, Trichoderma viride cellulase, glucose 5068
Aspergillus quadrilineatus,
 stergmatocystin 8574
Aspergillus ramosa,
 oil palm kernels 4220

Subject index

- Aspergillus repens,**
barley seed 2687
forage post-harvest decay 8747
pigeon excrement, stone degradation 4183
soil 6426
- Aspergillus restrictus,**
oil palm kernels 4220
soil 2866
- Aspergillus ruber,**
forage post-harvest decay 8747
oil palm kernels 4220
- Aspergillus rugulosus,**
antibiotic SL 7810, echinocandin B, structure 4799
sterigmatocystin 7808 8574
- Aspergillus saitoi,**
proteinase, affinity chromatography 3311
- Aspergillus sclerotium,**
soil leaf litter, fungi, microbial culture filtrates 10051
- Aspergillus sojae,**
enzymes, soy sauce 5183
flocculant P83
flocculant polymer 2533
flocculant, *Saccharomyces* 2534
proteinase I 860
proteinase II 860
proteinase inhibitor 8333
soy sauce 7703 7704 7705
- Aspergillus stellatus,**
sterigmatocystin 8574
- Aspergillus striatus,**
soil, nitrogen 2873
- Aspergillus sulphureus,**
pigment, carbon-13 nuclear magnetic resonance spectroscopy 6948
soil 6426
- Aspergillus sydowii,**
cellulase 6869
cellulolytic enzymes 6869
soil 6426
soil, formalin fumigation 6453
- Aspergillus tamarii,**
antibiotic A30641 2241
antibiotic A-30641, antibacterial agent/antifungal agent 10339
cacao post-harvest decay 2765
cacao post-harvest decay, cellulase 2766
fenugreek seed 1017
large cardamom 4224
oil palm kernels 4220
- Aspergillus terreus,**
abscisic acid 3698
aminocarbotrithioates 1263 1264
botrytic acid 3698
caffeine 3698
citric acid 808
coumarin 3698
cowpea seed 1848
ephedrine 3698
fennel rhizosphere, subamycin 2863
large cardamom 4224
malic acid 3698
milk 920
oil palm kernels 4220
papainum 3698
paper degradation 2551
phacidin 10398
pigeon pea rhizosphere 6422
salicylic acid 3698
slimicide, industrial water system 3124
soil 3638 6426
soil, diuron 7280
soil, fluometuron 7280
soil, formalin fumigation 6453
soil leaf litter, fungi, microbial culture filtrates 10051
- Aspergillus terreus(Contd),**
soil, monosodium methanearsonate 7280
soil, prometryn 7280
toxins, food 3428
- Aspergillus terricola,**
amylase 8349
protease 8349 8389
protease, beer wort 8443
terrilytin, immobilisation 8392
- Aspergillus tonophilus,**
optical device 4851
- Aspergillus ustus,**
pigeon excrement, stone degradation 4183
plastics degradation 2553
soil 3638 6426
sterigmatocystin 8574
wheat 6233
- Aspergillus varicolor,**
soil, *Rhizobium* 3646
- Aspergillus versicolor,**
6,8-0-dimethylversicolorin A, high-speed liquid chromatography 6146
aversin, high-speed liquid chromatography 6146
averufin 1693
6-deoxyversicolorin A, high-speed liquid chromatography 6146
6,8-0-dimethylaverufin, high-speed liquid chromatography 6146
dimethylsterigmatocystin, high-speed liquid chromatography 6145
food, acidified potato dextrose agar/non-acidified chlortetracycline potato dextrose agar 1591
forage post-harvest decay 2747
guanidine derivatives 3041
large cardamom 4224
meat/meat product 8505
5-methoxysterigmatocystin, high-speed liquid chromatography 6145
mycotoxins, carbon-13 nuclear magnetic resonance spectroscopy 7054
plastics degradation 2553
quaternary ammonium salt 470
soil 6426
soil, nitrogen 2873
soil, organic matter degradation 2864
soybean 9596
sterigmatin, high-speed liquid chromatography 6146
sterigmatocystin 986 7808 7833
sterigmatocystin, high-speed liquid chromatography 6146
sterigmatocystin, pistachio nut 227
sterigmatocystin, stored rice 238 9690
sterigmatocystin, water activity 977
versicolin, *Colletotrichum gloeosporioides*, biological control, jute 8880
versicolorin B 1693
- Aspergillus wentii,**
soil 6426
- Aspertoxin,**
9691
- Asphalt,**
fungi 5507
- Asphalt binder,**
fungi 5507
- Assay,**
7-phenoxyacetamidodesoxyxyrinalosporonic acid 8138
acetylene reduction, nitrogen fixation, rice 8896
acetylene reduction, nitrogen fixation, soil microorganisms 10058
Acholeplasma reference antisera 5847
aflatoxin B1, rabbit cornea cell culture 2627

Subject index

Assay (Contd),

aflatoxin M1 + aflatoxin B1, milk/dairy product 7059
aflatoxins, corn, rainbow trout 9704
aflatoxins, enzyme-linked immunosorbent method 9695
aflatoxins, fccd/animal feed 5270
alginate, *Azotobacter vinelandii* phase alginate depolymerase 3257
Amanita phalloides beta-amanitin, thin-layer chromatography 7064 7064
Amanita phalloides amanitins, spectrometry 6140
aminoglycoside antibiotics, serum, *Staphylococcus aminoglycoside*
4-adenylyltransferase/*Escherichia coli*
aminoglycoside 2-adenylyltransferase 2183
amoxicillin, fluorometry 8150
amphotericin B, *Paecilomyces varioti* 5693
amphotericin B, rubidium-PA release, *Candida parapsilosis* 3791
amphotericin B, *Saccharomyces cerevisiae* + rubidium 5636
ampicillin, fluorometry 6552
antibiotic residues, chicken, *Bacillus cereus* 4230
antibiotic residues, chicken, *Bacillus subtilis* 4230
antibiotic residues, chicken, *Micrococcus luteus* 4230
antibiotics 9033 10227
antibiotics, *Bacillus stearothermophilus* 4719
antibiotics, bacterial ATP-firefly luminescence 10225
antibiotics, fish feed, *Bacillus pumilus*/*Bacillus cereus* 7038
antibiotics, milk, *Sarcina lutea* 8479
antibiotics, milk, *Sarcina lutea*/*Bacillus subtilis* 5206
Aspergillus niger, amylase, turbidimetry 6863
ATP, wastewater disinfection 5781
Bacillus thuringiensis parasporal crystal, tobacco hornworm 7080
bactracin, *Micrococcus flavus*, animal feed 4231
bacteria, beta-2-thienylalanine 4937
bacterial ATP, luminescence 5831
bacterial endotoxin, *Limulus amoebocyte* 7077
bacterial endotoxin, *Limulus amoebocyte* lysate test 7845
bacterial endotoxin, spectrophotometry 9724
bacterial motility 6763
bacteriological, casein, stomach 4926
beet curly top virus, latex flocculation 10628
benzoic acid, *Rhodotorula rubra*/*Cryptococcus albidus* 8530
biotin, *Lactobacillus plantarum*, beer/yeast 4160
cafazolin, high-pressure liquid chromatography 5653
carbon, compost 6754
carbon dioxide, bacterial mutant culture 2374
carbon, manure 6754
carbon, microbial culture 6754
carbon, soil 6754
carcinogen, *Escherichia coli* 6774
cefazolin + protein, *Bacillus subtilis* 3771
cephalexin, fluorometry 6552
cephaloridine + protein, *Bacillus subtilis* 3771
cephalosporin derivatives + protein 3770
cephalosporin derivatives + protein, *Bacillus subtilis* 3771
cephalosporins, fluorometry 7390
cephalothin + protein, *Bacillus subtilis* 3771

Assay (Contd),

chloramphenicol, chloramphenicol acetyltransferase 618
chloramphenicol, colorimetry 5686
chlorhydroxyquinoline, *Streptococcus faecalis* 6101
chlorpromazine, *Escherichia coli* 5840
chlortetracycline + cerium, spectrophotometry 9109
chromium mutagenicity, *Salmonella typhimurium* 7575
Chromobacterium viscosum lipase 1476
Clostridium perfringens nucleoside phosphotransferase, fluorometry 7641
Clostridium vaccine 9313
corn post-harvest decay, chitin 9907
cowpea methionine/cysteine/cystine, *Leuconostoc mesenteroides* 10507
dairy effluent 7477
enzyme-coupled immuno-, virocytin 9160
epicillin, chelatometry 6582
ergot alkaloid, fluorodensitometry 7678
erythromycin, chicken feed 7784
Escherichia coli enterotoxin 2643
Escherichia coli enterotoxin, haemolysis passive immune 7088
Escherichia coli enterotoxin, infant mouse 5290
Escherichia coli enterotoxin, rat perfusion 4277
Escherichia coli enterotoxin, Vero cell culture 7089
ethambutol, *Mycobacterium smegmatis* 10133
fatty acids, wort/beer/yeast 9510
5-fluorocytosine, serum, gas chromatography 8080
fluorometric, minocycline 7421
5-fluorouracil, *Streptococcus faecalis* 10600
folic acid, fermented milk product, *Streptococcus faecalis* 1731
gentamicin, *Escherichia coli* gentamicin adenine mononucleotide transferase 8363
gentamicin, haemagglutination-inhibition 5683
gentamicin, *Klebsiella* 10314
gentamicin, serum, high-pressure liquid chromatography 7414
gluconic acid, *Pseudomonas fluorescens* glucono-dehydrogenase 9396
glucosamine, koji 9605
Haemophilus influenzae penicillinase 1203
Helminthosporium maydis toxin 9715
hybridization-competition, *Escherichia coli* rRNA 4948
industrial waste toxicity, *Pseudomonas* 3107
interferon 6517
interferon, antiviral agent 5580
ionophore A23187, *Staphylococcus aureus* 8062
beta-ketoacyl synthetase, *Saccharomyces cerevisiae* fatty acid synthetase 9408
lasalocid sodium, *Bacillus subtilis*, animal feed 5244
levomepromazine, *Bacillus subtilis* 5840
lincomycin residues, animal tissues, *Sarcina lutea* 2227
liquid antibody microculture plaque, antibody 10626
lysine, food, *Escherichia coli* 6992
lysine, protein hydrolysate, *Leuconostoc mesenteroides* 5204
malformin, mung bean 4811
methionine, protein hydrolysate, *Leuconostoc mesenteroides* 5204
methyl partricin, *Saccharomyces cerevisiae* 645
miconazole, *Candida stellatoidea* 5572
microbial, aqueous liquid toxicity 2364
microbial biomass, sediment, muramic acid 7506
microbial, dichlobenil 8918

Subject index

Assay (Contd),

microbial, disinfectant 10485
microbiological, animal feed 199
microbiological, antibiotic mixture 299C
microbiological, antibiotics, intravenous solution, quality control 6542
microbiological, automatic zone scanner 4921
microbiological, mutagens 10538
microbiological, polyene antibiotics 3759
microbiological, rifamycin B 6602
microbiological, vitamin B group, beer, yeast 6016
microorganisms 1559
microorganisms, *Limulus* lysate test 10551
milk, *Bacillus subtilis*, heat-sensitive inhibitors 6041
milk, *Sarcina lutea*, heat-sensitive inhibitors 6041
monensin, chicken feed, *Streptococcus faecalis* 7785
morphocycline 6616
mutagen, *Escherichia coli* 6776
mutagen, *Saccharomyces cerevisiae*, fluctuation test 9296
mutagen, *Salmonella typhimurium* 6776
Mycobacterium enzyme, umbelliferone derivatives, spectrophotometry 8276
mycoheptin, paper disc agar diffusion 6643
Mycoplasma reference antisera 5847
NADH, *Beneckea harveyi* immobilized luciferase/NAD(P)H:FMN oxidoreductase 2479
NADPH, *Beneckea harveyi* immobilized luciferase/NAD(P)H:FMN oxidoreductase 2479
netilmicin, serum, high-pressure liquid chromatography 7414
nicotinic acid, *Lactobacillus plantarum*, beer/yeast 4160
nicotinic acid, plasma, *Lactobacillus plantarum* 10565
N-nitroso-N-methylcarbamate mutagenicity, *Bacillus subtilis* 3965
N-nitroso-N-methylcarbamate mutagenicity, *Escherichia coli* 3965
nutritive, rye/wheat bread, *Aspergillus flavus* 7021
nystatin, *Saccharomyces cerevisiae*, flow calorimetry 5695
nystatin, *Saccharomyces cerevisiae* + rubidium 5696
ochratoxin B, ochratoxin B + ochratoxin A, carboxypeptidase A 8569
orange juice, *Lactobacillus plantarum* 5238
pantothenate, fermented milk product, *Lactobacillus arabinosus* 1731
pantothenic assay, *Lactobacillus plantarum*, beer/yeast 4160
penicillin acylase, bacteria, phenylacetic acid 5963
penicillin G, *Escherichia coli* beta-galactosidase 4762
penicillin, immobilized penicillinase-based flowing-stream analyser 589
penicillin, milk, *Bacillus stearothermophilus* 2565 3382 8477 8478 9538
penicillin, milk, *Bacillus subtilis* 3382
penicillins, fluorometry 7390
plate clearing, *Trichoderma viride*, cellulase 4075
polyene antibiotics 3759
polyene antibiotics, spectrophotometry 9105
polyethoxylate non-ionic surfactant degradation 7710
potency, cholera vaccine, ferric ammonium citrate 3089
promethazine, *Bacillus subtilis* 5840
Pseudomonas putida sarcosine dehydrogenase 2461
pyridoxine, *Saccharomyces carlsbergensis*, beer/yeast 4160

Assay (Contd),

radioisotope, nitrogen fixation, *Rhizobium lupini* + lupin 8908
radiometric, bacterial metabolism 3166
radiometric, formate oxidase, *Mycobacterium* 5845
riboflavin, *Lactobacillus casei*, beer/yeast 4160
rifamycin O, spectrophotometry, rifamycin S 11319
rifamycin S, spectrophotometry, rifamycin O 10319
rishitin/phytuberin/solavetivone/desacetylphytoerin, potato 3567
rubomycin, fluorimetry 6647 8192
rubratoxin B, rabbit cornea cell culture 2627
rumen bacteria 8283
rye/wheat/triticale nutritive value, *Aspergillus flavus* 5855
selenium, *Clostridium sporogenes* 10555
serological, *Escherichia coli* enterotoxin 9733
serum folate, *Lactobacillus casei*/radioassay kit 4952
silage lactic acid 9633
sisonicin, serum, high-pressure liquid chromatography 7414
soil denitrification, acetylene 10057
soil nitrogen fixation, acetylene 10057
sorbic acid, *Rhodotorula rubra*/*Cryptococcus albidus* 8530
soybean mosaic virus, bean 7109
soybean post-harvest decay, chitin 9907
Staphylococcus aureus deoxyribonuclease, food 7725
Staphylococcus aureus epidermolytic toxin 4281
Staphylococcus aureus penicillinase 1205
Staphylococcus aureus protein A, lysostaphin 8288
streptomycin, thiobarbituric acid 5680
sucrose, *Bacillus stearothermophilus* 3969
sulphonamide, food, *Bacillus stearothermophilus*/*Bacillus megaterium*/*Micrococcus luteus* 5198
sulphonamide, milk, *Sarcina lutea* 143
tetracycline, *Bacillus stearothermophilus*/*Bacillus cereus* 9033
thiamine, food, *Lactobacillus viridescens* 9535
thiamine, *Lactobacillus fermentum*, beer/yeast 4160
thiopeptin, chicken feed, *Acholeplasma laidlawii* 7786
thymidine, culture medium, *Lactobacillus arabinosus* 9275
tobramycin, *Klebsiella edwardsii* 6655
trichocarbon/triclosan, continuous distillation extraction apparatus 3681
triglyceride, microbial lipase 3290
tritiated *Escherichia coli* endotoxin, *Limulus amoebocyte* lysate test/rabbit pyrogen assay/complement-activation 7725
turbidimetric, bacitracin, animal feed, *Streptococcus faecalis* 949
turbidimetric, chlortetracycline, animal feed, *Staphylococcus aureus* 950
urease, anaerobic bacteria 8271
virus air pollution, wastewater treatment, coliphage/coliforms 7484
vitamin B12, fermented milk product, *Lactobacillus leichmannii* 1731
vitamin B12, *Lactobacillus leichmannii* 10566
wood preservative fungicide 10031
wood preservative fungicide, contact agar-block method 10029

Aster,
aster yellows, Mycoplasma-like organism 7903
China, Oidiopsis/Leveillula taurica 5299

Subject index

- Aster (Contd).**
Erysiphe cichoracearum 704
- Aster yellows,**
celery, leafhopper 7910
Mycoplasma-like organism, aster 7903
mycoplasma-like organism, spinach 7172 7935
- Astragalus arpilobus,**
rhizosphere/root, mycoflora 2865
- Astragalus chivensis,**
rhizosphere/root, mycoflora 2865
- Astragalus paucijus,**
rhizosphere/root, mycoflora 2865
- Astroloma conostephioides,**
Phytophthora cinnamomi 8597
- Asulamycin,**
Streptomyces nodosus, antibacterial agent 5719
- Asulam,**
degradation, soil microorganisms 10079
soil microorganisms 2087
- Atebrin,**
bacterial adenosine triphosphatase 5561
- ATP,**
activated sludge 5777
Aspergillus parasiticus, aflatoxins 4256
assay, wastewater disinfection 5781
bacterial, ampicillin, antibiotic sensitivity testing 8154
bacterial, assay, luminescence 5831
bacterial, coxycycline, antibacterial agent 5700
bacterial, + firefly luminescence, antibiotics assay 10225
cattle rumen 2599
microbial biomass, photometer 1549
microbial, chemiluminescence 5119
microbial, computer 2361
microbial, luminescence, food/water 1548
Rhodospirillum rubrum chromatophores 2521
rumen microbial biomass 6782
Saccharomyces vini, carbon dioxide 8449
- ATP sulphurylase,**
wine yeast, sulphite 1703
- ATPase,**
F1, Micrococcus species ATCC 398E, affinity chromatography 1635
thermophilic bacterium 1634
- Atratrof,**
Alternaria cucumerina, squash 382
- Atrazine,**
microbial degradation, soil 3655
soil microorganisms 3654 7279
- Atropa bella-donna,**
belladonna mottle virus 3501
- Aubretia deltoidea,**
cucumber mosaic virus 8676
- Augusta disease,**
tobacco necrosis virus, tulip, Olpidium brassicae 4429
- Autographina eucalypti,**
Eucalyptus 8855
- Aureobasidium,**
latex paint film, surface disinfection 10092
- Aureobasidium pullulans,**
guanidine derivatives 8041
lodgepole pine dwarf mistletoe 4543
loganberry, post-harvest decay 6321
paint degradation, wood 2550
paint film degradation 4176
paint film degradation, enzymes 4177
plane tree 1157
plant leaf, pollen 2660
protein, straw hydrolysate, food/animal feed 4054
soil, P_o pigment 7259
trifluoromethyl phenyl-3-(3',5'-dicyanophenyl)urea 2140
- Aureofungin,**
Alternaria cepulicola, onion 4492
Alternaria cucumerina, squash 382
- Aureofungin (Contd),**
Alternaria solani, potato 5418
Cephalosporium sacchari, sugarcane 8790
Colletotrichum piperatum, chilli 4490
Curvularia lunata, cluster bean 2002
Fusarium oxysporum, chilli 4490
Fusarium oxysporum, lemon post-harvest decay 9416
Fusarium solani 10247
Geotrichum candidum, orange post-harvest decay 2771
methyl ester 10266
Phytophthora nicotianae, tomato 4494
Phytophthora parasitica, Ficer beetle 9970
Rhizobium/Rhizobium + mung bean 3649
Thielavia terricola, sesame 381
- Aureomycin,**
see also Chlorotetracycline
mycoplasma-like organism, little leaf disease, eggplant 5372
mycoplasma-like organism, sandal spike, sandal 5464
seed treatment, Xanthomonas campestris, Brussels sprout 8830
- Aureothin,**
mycolutein 1385
- Auricula tree,**
Acremonium rutilum 1837
Chaetomium globosum 1837
Curvularia eraprostidis 1837
Fusarium equiseti 1837
Nigrospora oryzae 1837
- Aurodox,**
Streptomyces goldiniensis 9126 10352
- Auto-analyser,**
microbial omega-amino acid 7599
- Auto Analyser method,**
Escherichia coli, drinking water 7729
Escherichia coli, milk 7725
- Autobac 1,**
antibiotic sensitivity testing 9036
antibiotic sensitivity testing, bacteria 10539
- Autobac 1 system,**
antibiotic sensitivity testing 7367
- Autobac system,**
ampicillin, Haemophilus influenzae 5670
- Autoclavable dispenser,**
disposable pipette tips 7351
- Autoclave,**
low-temperature steam/formaldehyde, cystoscope disinfection/sterilisation 4695
steam + formaldehyde, urinary endoscope sterilisation 9013
sterilisation, plastic bag 7352
- Autographa californica,**
nuclear polyhedrosis virus, Spodoptera frugiperda cell culture 4010
- Autographa californica,**
nuclear polyhedrosis virus, Trichoplusia ni cell culture 4011
- Autolysin,**
Streptococcus cremoris 1734
- Autolysis,**
RNA, Saccharomyces cerevisiae protein 9349
Saccharomyces cerevisiae, food 8312
Saccharomyces cerevisiae, nucleic acid reuction 2435
Streptococcus cremoris 6043
yeasts 1716
- Automatic zone analyser,**
antibiotic sensitivity testing 1300
- Automatic zone scanner,**
microbiological assay 4921
- Autoradiography,**
Mycobacterium leprae 8277
- Auxanographic method,**
carbohydrate assimilation, yeasts 10611
- Auxarthron reticulatum,**
spores, wetting agent 9291

Subject index

- Auxin**,
coryneform bacteria, Scots pine roots 4002
Leveillula taurica, pepper 9952
Scots pine, Suillus variegatus 6381
- Avadex BW**,
soil, Fusarium solani, bean 10073
- Avena byzantiana**,
Ustilago avenae 4320
Ustilago hordei 4320
- Avena fatua**,
Fusarium moniliforme, gibberellin 278
- Avena ludoviciana**,
Ustilago avenae 4320
- Avena sativa**,
Chloris striate mosaic disease, Rhodes grass 7128
Drechslera avenacea, saponins 277
Drechslera sorokiniana, biological control 1099 7202
Drechslera sorokiniana, seed treatment fungicide 1120
Erysiphe graminis avenae 6334
fungal diseases 2685
Fusarium culmorum, biological control 1099 7202
Fusarium culmorum, seed treatment fungicide 1120
Gaumannomyces graminis avenae, biological control, Phialophora radicicola 370
grains, sterigmatocystin, chromatography thin-layer 7834
Helminthosporium victoriae victorin 7126 9793
Puccinia, BAS 3170 F 1109
Puccinia coronata avenae 4337 4338 9773
Puccinia coronata avenae, antifungal agent, plant leaf extracts 1028
Puccinia coronata, triazinedione derivatives 1119
Puccinia graminis avenae 1876 3482 4339
Puccinia hordei, triazinedione derivatives 1119
resistance, Erysiphe graminis avenae 6334 7949 8770
resistance, fungal diseases 2685
resistance, Puccinia coronata 4449 7199 9933
resistance, Ustilago kolleri 9794
Rhizoctonia solani, biological control 1099 7202
Rhizoctonia solani, seed treatment fungicide 1120
seed treatment, antibiotics 10236
soil, Cochliobolus sativus 2868
Ustilago avenae 1877 4315 4320
Ustilago hordei 4320
Ustilago kolleri 9794
virus disease 1869
- Avena sterilis**,
resistance, Puccinia coronata 4449 7199
- Avena strigosa**,
resistance, Puccinia coronata 4449 7199
- Avenacoside**,
Drechslera avenacea, oat 277
- Aversin**,
Aspergillus versicolor, high-speed liquid chromatography 6146
- Aversion factor**,
Cochliobolus setariae, helminthosporol, helminthosporol, ophiobolin A 6625
- Averufin**,
6,8-O-dimethyl-, Aspergillus versicolor, high-speed liquid chromatography 6146
aflatoxin, Aspergillus parasiticus, dichlorvos 6131
Aspergillus parasiticus 3339
Aspergillus versicolor 1693
- Avian encephalomyelitis virus**,
polyethylene glycol precipitation + fluorocarbon extraction 10627
- Avian myeloblastosis virus**,
DNA, litomycin 8187
DNA-polymerase, rifamycin derivatives 4773
DNA polymerase, rifamycin SV derivatives 4772
- Aviation fuel**,
bactericide/fungicide 7345
- Avicelase**,
Trichoderma viride 6173
- Avocado**,
Alternaria citri post-harvest decay 9939
Colletotrichum post-harvest decay 9909
Diplodia natalensis post-harvest decay 9909
Phytophthora cinnamomi 5348 5349 6240
- Axilla**,
bacterial skin sampler 10534
- Axillaris**,
+ Rhizobium, inoculation 446
- Azadirachta indica**,
Alternaria alternata 3615
bark extract, watermelon mosaic virus, marrow 5424
Macrophoma collabens 1876
Periconia parasitica 7155
- 8-azaguanine**,
cucumber mosaic virus, chilli 3834
- Azalea**,
Ovulinia azaleae, Bay Met 6447 8c19
Ovulinia azaleae, fungicide 8800
- Azalomycin-like antibiotic**,
Epidermophyton floccosum 1295
Trichophyton mentagrophytes 1295
Trichophyton rubrum 1295
- Azapurine**,
derivatives, Streptococcus faecalis 7325
- Azaserine**,
Escherichia coli, phenylalanine 10353
- Azasterol**,
Saccharomyces cerevisiae 10354
- Azatricyclo-undecane**,
antiviral agent 524
- 6-azauridine**,
myxomatosis virus 1246
- Azetidinone**,
derivatives, antibacterial agent 3637
- Azidocillin**,
alpha-haemolytic Streptococcus 4728
Eacteroides fragilis 2166
- Azinphosmethyl**,
Fusarium graminearum, zearalenone 2636
- Azlocillin**,
+ gentamicin, antibacterial agent 7383
+ sisomicin, antibacterial agent 7382
anaerobic bacteria 2994
antibacterial agent 8155 10293
Bacteroidaceae 10288
- Azotobacter**,
corn seed, nitrogen fixation 2693
fertilizer, Sorghum seed 3629
nitrogen fixation 2413
nitrogen fixation, Aristida oligantha rhizosphere bacteria 2075
nitrogenase, nitrogen fixation 3220
Parthenium hysterophorus extract 2932
phages, soil 4562
plant rhizosphere, nitrogen fixation 6439
soil 428 10041
soil, Gramoxone W 1173
soil, membrane filter 3174
soil, mineral fertilizer 8920
soil, paraquat 1175
soil, tetrapropylene sodium alkyl benzenesulphonate detergent 6416
soybean rhizosphere 8015
water, membrane filter 3174
- Azotobacter beijerinckii**,
phage, soil 4562
- Azotobacter chroococcum**,
+ gram, nodulation, nitrogen fixation 5495

Subject index

Azotobacter chroococcum(Contd),

- + Rhizobium japonicum + soybean, nodulation/nitrogen fixation 1174
- continuous culture 770
- nitrogenase 5487
- phage, soil 4562
- protein 5899
- rice 7270
- soil 3631
- soil, nitrogen fixation 8894
- soil, seed germination 1163

Azotobacter indicus,

- heteropolysaccharide-7 1681
- heteropolysaccharide, oil well drilling fluid 9446

Azotobacter vinelandii,

- alginate 5983
- asparaginase, antitumour enzyme 5994
- azotophage, soil, enrichment culture 7253
- nitrate reductase 5079
- phage, soil 4562
- poly(D-beta-hydroxybutyrate) 4142
- soil, herbicide 5504

Azotobacter vinelandii phage,

- alginate depolymerase, alginate assay 3257

Azotomonas,

- hydrocarbon 7291
- organophosphate insecticide hydrolysis 113

Azotophage,

- soil, Azotobacter vinelandii, enrichment culture 7253

Azurin,

- Pseudomonas aeruginosa 5909

B663,

- Mycobacterium intracellulare 10132

Bacillaceae,

- bacillopeptidase C, anti-inflammatory agent 9365
- penicillin derivatives 1356 1357

Bacillomycin B,

- iturin A, antifungal agent 5743

Bacillomycin R,

- iturin A, antifungal agent 5743

Bacillopeptidase C,

- Bacillaceae, anti-inflammatory agent 9365

Bacillus,

- 3214
- lysing phages, soil 8873
- Actinomyces recifensis lytic enzyme 2480
- alkylbenzene sulphonate degradation 899
- alkylbenzene sulphonate detergent degradation 4167
- alpine tundra soil 5469
- amylase 5041
- animal feed/food, methanol 820
- antibiotic 1745A/X 10337
- antibiotic X-372A 1403
- aseptic packaging, medical instrument 2161
- bacitracins 9054
- bacteriocins 2439
- bottled milk 8539
- buffalo milk 6040
- carob bean flour 3405
- cephalosporin derivatives 1334
- chlorine compounds, canned food cooling water 1780
- colistin 9054
- cyclodextrin glycosyltransferase 848 2462
- acid-cyclodextrin glycosyltransferase 3264
- neutral-cyclodextrin glycosyltransferase 3265
- cyclodextrin glycosyltransferase, starch, cyclodextrin 9445
- 1,2-dehydrogenation, D-homosteroid 5978
- deoxyribonuclease 834 9380

Bacillus(Contd),

- edeine 9054
- esterase, cephalosporin p-nitrobenzyl ester de-esterification 6573
- estuarine water/sediment, petroleum degradation, numerical taxonomy 10109
- alpha-galactosidase 3271 5945
- garlic 10143
- gelatine/casein hydrolysis, food 8470
- beta-1,3-glucanase 5041
- glucose dehydrogenase, glucose 2468
- gramicidin S 9054
- halotolerance 5522
- heat resistance, ultrasonic treatment 211
- heat-resistant, scalding tank water 1530
- immobilised cyclodextrin glycosyltransferase, cyclodextrin 5939
- insecticide 9467
- maltase 4097
- mesquite degradation 8457
- milk, proteolysis/lipolysis 142
- mycobacillin 9054
- pasteurised milk 7799
- penicillin derivatives 7408
- penicillinase 2487
- peptide antibiotics 9054
- phospholipase C, milk 5208
- polymyxin 9054
- protease 5972 9430
- protein, hydrocarbon 9320
- proteinase 1672
- purine degradation 119
- pyrolysis gas liquid chromatography, culture medium 7547
- raised bog soil 6412
- rhizosphere, molybdenum 6415
- rosamicin monoesters 5760
- soil, aldrin degradation, exo-dieldrin 10074
- soil, amitrole degradation 7281
- soil, mancozeb degradation 8923
- soil, nitrophenol degradation, parathion 6448
- soil, phages 429
- spores, milk 3385
- Streptomyces orientalis 3082
- sublimation dehydration preservation 2981
- subtilisin, xanthan gum classification 5111
- subtilopeptidase, xanthan gum classification 5111
- tetrahydrocannabinol transformation 8427
- tyrocidine 9054
- ultra-high temperature milk product 8538
- vacuum-packaged trout, gamma-irradiation 5258
- waste treatment 5786
- waste treatment, protein/enzymes/vitamins 2313
- wastewater treatment 699
- water, dodecylbenzene sodium sulphonate degradation 6723
- Bacillus acidocaldarius, alpha-amylase 2451
- Bacillus acidophilus, dentifrice 2354
- Bacillus agri, antibiotic KM-214 2243
- asukamycin 5719
- Bacillus alimentophilus, waste treatment 5786
- waste treatment, protein/enzymes/vitamins 2313
- Bacillus alvei, alveolysin 9726
- Bacillus amyloliquefaciens, alpha-amylase, dextran conjugate 2452
- alpha-amylase, starch hydrolysis, low D.E. malto-dextrin 6932 6933
- polynucleotide phosphorylase 7649
- protease, xanthan gum clarification 3332

Subject index

- Bacillus amylozyma**,
ribonuclease 46
- Bacillus anitratus**,
human milk 9542
- Bacillus anthracis**,
antibiotic 333-25 1387 1388
antibiotic 342-14-T 4787
antibiotic P-43 5705
antibiotic KM-214 2243
aplasomycin 5717
asukamycin 5719
brevistin 2251
chalcone analogues 8071
chlorpromazine/levopromazine/promethazine 8980
kanamycin R derivatives 6596
kanamycin derivatives 3785
laterosporamine 2261
magnesium 3810
oxamycin 3073
thiocillin I/thiocillin II/thiocillin III 2270
- Bacillus anthracis vaccine**,
3C87 6668
- Bacillus aurantius**,
antibiotic KM-214 2243
- Bacillus badius**,
boiled/fried rice 7775
thiocillin II/thiocillin III 2270
vitamin B12, alkane 6467
- Bacillus brevis**,
antibiotic 1998 3057
antibiotic 342-14-T, antibacterial agent 4787
aspartokinase 1641
boiled/fried rice 7775
brevistin 2251
buffalo milk 6040
gramicidin 5736
gramicidin A 8183
gramicidin C 5737 10370 10371
gramicidin S 4805
gramicidin S, culture medium 638
gramicidin S synthetase 2473
gramicidin S synthetase, gramicidin S 7430
juvenimicins 7433
protease 42
protein 3234
protein SP127, macrolide antibiotics, *Pseudomonas aeruginosa* 8334 8335
RNA polymerase, gramicidin 7431
soil, *Rhizobium* 3646
spores, milk 3385
tyrocidine 9159 10411
xylostasin 654
- Bacillus caldolyticus**,
ribose-5-phosphate isomerase 863
- Bacillus carotynus**,
mango post-harvest decay 9917
- Bacillus cereus**,
7783
alborixin 5714
amine oxide derivatives 10196
beta-amylase + pullulanase, maltose 2453 2454
antibiotic 19 402 R-P. 3798
antibiotic AV290 alkylated derivatives 1394
antibiotic KM-214 2243
antibiotic No. K-73 3803
antibiotic P-3355 2244
antibiotic residues assay, chicken 4230
antibiotic XK-90 5710
antibiotics 9037
Aristida oligantha rhizosphere, nitrogen fixation, *Rhizobium/Azotobacter* 2075
assay, antibiotics, fish feed 7038
asukamycin 5719
beta-amylase, filamentation 9358
beta-amylase, sporulation 9359
- Bacillus cereus(Contd)**,
biological control, *Alternaria alternata*, tobacco 0955
boiled/fried rice 7775
3-bromoacetoxy tetrahydrofuran 533
buffalo milk 6040
cannabinoid transformation 8426
carbamyloxy-benzamide derivatives 4691
cerexin A, structure 9132
cerexin B, structure 9133
cerexin C 9134
cerexin D 9134
chalcone analogues 8071
cinnamyl phenols 532
cortisol dehydrogenation 59
cyanide resistance 2536
daunorubicin/daunorubicinol N-acetylation, antitumour antibiotic 9459
dihydrodipicolinate reductase 9383
dog feed 1770
enterotoxin 1820 4274
enterotoxins 4275 4276
esterase, cephalosporin p-nitrobenzyl ester de-esterification 6573
ethyl picolinate 8977
exo-enterotoxin, aggregate haemagglutination 5292
food poisoning 1713 3576
food poisoning, serotyping 5203
food, serotyping 5200
food, *Streptococcus* group D enterocines 2559
formaldehyde 5523
fortimicin A 8181
gelatine/casein hydrolysis, food 8470
glutamate dehydrogenase isozymes 6895
growth chamber 7548
guar gum degradation 5191
haemolysin, food 7078
heat resistance 1191 6470
heat treatment/gamma-irradiation/sodium chloride 8527
2-hydroxy-3-(cyclohexylpropyl)-1,4-naphthoquinone 3690
juvenimicins 7433
kanamycin B derivatives 6596
kanamycin derivatives 3785
Karelian pasty, sorbic acid/sorbate 8551
beta-lactamase, affinity chromatography 4095
beta-lactamase, ampicillin 8153
beta-lactamase, dicloxacillin 9410
lethal toxin, food 7078
locust bean gum degradation 5191
long-life milk 6123
medermycin 4812
mesquite 822
milk 139
nitroimidazolyl-acetylropeic acid derivatives 2136
pharmaceutical cream, peracetic acid sterilisation 2979
phenethyl alcohol, electron microscopy 1218
phenylamide pesticide degradation 6023
phosphatidylinositol phosphodiesterase 3308
phospholipase C 6912 7646
phospholipase C, food 7078
protease, hide treatment 8386 8387
resistance, formaldehyde 5523
soil fungi, cadmium 8018
soil, phages 429
spice 6089
sporamycin 6940 8420
spores, nisin 1431
steffimycinone 8193
Streptomyces antibiotics 9025
Streptomyces candidus spore-lytic enzyme 5097
sugar industry 939
tetracycline assay 9033
thiocillin I/thiocillin II 2270
thiocyanate xanthate derivatives 2972

Subject index

Bacillus cereus(Contd),

4-thiouracil 6653
trifluoromethyl
phenyl-3-(3',5'-dicyanophenyl)urea 2140
vanilla slices 8514
Vega disinfectant 9232
vitamin B12 antimetabolite, antibacteri-
agent 948C
xylostin 654

Bacillus circulans,

aminoglycoside 7'-phosphotransferase,
butirosin 10457
animal waste treatment, methane + animal feed
6714
antibiotic 337-25 1387 1358
antibiotic P-43 5705
antibiotic EM-49, tetramidino derivatives,
antibacterial agent/antifungal agent 5707
butirosin 2171
butirosins 14J8
enzyme, *Staphylococcus aureus*
N-acetylglucosaminyl ribitol teichoic acid
degradation 364
esterase, cephalosporin p-nitrobenzyl ester
de-esterification 6573
beta-1,3-glucanase 3274
milk, heat resistance 8482
peptidolipio 502E
soil, phages 429
xylostin 654

Bacillus coagulans,

alpha-amylase, starch hydrolysis, low D.E.
malto-dextrin 6932 6933
buffalo milk 674C
glucose isomerase 9399
glucose isomerase, glucose isomerisation,
fructose 9398
glucose isomerase, immobilisation 9400
guar gum degradation 5191
immobilised, glucose isomerase, D-fructose
5067
locust bean gum degradation 5191
lysine 6831
milk, heat resistance 8482
soil, phages 429
spores, milk 3385
spores, nisin 1430
sugar industry 939
tomato juice, heat resistance 970

Bacillus filarlis,

soil, denitrification/nitrate reduction 442

Bacillus firmus,

buffalo milk 6040
guar gum degradation 5191
locust bean gum degradation 5191
proteolytic enzymes 1671

Bacillus larvae,

apiary, ethylene oxide sterilisation 3738
apiary sterilisation, ethylene oxide 2980
honeycomb, biological control, *Penicillium*
waksmani 1212
honeycomb, ethylene oxide sterilisation 6537

Bacillus laterosporus,

laterosporamine 2261

Bacillus lentimorbus,

insecticide 87

Bacillus lentus,

boiled/fried rice 7775
1,2-dehydrocaneation, D-homosteroid 5978
guar gum degradation 5191
locust bean gum degradation 5191

Bacillus licheniformis,

3214
acetic acid, redox potential 8313
alpha-amylase, starch hydrolysis, low D.E.
malto-dextrin 6932 6933
bacitracin, metal ions 3049
boiled/fried rice 7775

Bacillus licheniformis(Contd),

esterase, cephalosporin p-nitrobenzyl ester
de-esterification 6573
germicide 6742
guar gum degradation 5191
hydrogen peroxide sterilisation 10212
locust bean gum degradation 5191
novobiocin resistance 5543
penicillinase 37 33C4 5087 8382
penicillinase, 6-beta-amidinopenicillanic
acid 10249
penicillinase,
7-beta-amidinodeacetoxycephalosporanic acid
10249
penicillinase, chemostat culture 5913
penicillinase-releasing protease 3312
penicillins resistance, penicillinase,
alkylsulphates/alkylarylsulphonates 8953
phosphatase 2488
phosphatase, chemostat culture 5913
product, animal feed 195
protease, chemostat culture 5913
protease, xanthan gum clarification 3332
ribonuclease, chemostat culture 5913
soil, phages 429
spores, milk 3385
spores, nisin 1430
Streptomyces candidus spore-lytic enzyme
5097
wheat seed treatment, *Tilletia*
caries/*Tilletia foetida* 4525

Bacillus macerans,

cyclodextrin glycosyltransferase 7619

Bacillus megaterium,

3214
acylase, 7-aminocephalosporanic acid
derivatives 2207
adenosine triphosphatase, atebirin 5561
alborixin 5714
animal waste treatment, methane + animal feed
6714
Aristida oligantha rhizosphere, nitrogen
fixation, *Rhizobium*/*Azotobacter* 2075
asukamycin 5719
boiled/fried rice 7775
buffalo milk 6040
chemostat culture 5839 9268
chloramphenicol resistance 8959
citrate synthase 4079
copper, intensive care unit 2347
cyanide 117
cyclopiazonic acid 4265
dihydrodipicolinate reductase 9383
enzyme, cephalixin 8136
gelatine/casein hydrolysis, food 8470
glutaraldehyde 6525
2-hydroxy-3-(cyclohexylpropyl)-1,4-
naphthoquinone- *Bacillus subtilis*,
2-hydroxy-3-(cyclohexylpropyl)-1,4-naphthoqu-
inone 3690
intravenous infusion bottle plug 5806
iron oxidation 4613
iron superoxide dismutase 5958
lyophilised cell wall 5016
lysine 6831
magnesidin 3810
marsh, antibiotics 3056
megacin C 5031
megacin Cx 5031
milk, heat resistance 8482
neotelomycin 10391
neotelomycin derivatives 9144
nitroimidazolyl-acetylpropenoic acid
derivatives 2136
penicillin amidase 5087
penicillin-binding components 8148
penicillins 2220
phenethyl alcohol, electron microscopy 1218
phorate degradation 1711
RNA, dothistromin 986

Subject index

Bacillus megaterium(Contd),

silver nitrate 2937
soil, phages 429
spore, protease 4103
spores, nisin 1430
steroid reduction 61
streptomycin A 5763
Streptomyces candidus spore-lytic enzyme 5097

sulphonamide assay, food 5198
thallium 4689
thiocillin I/thiocillin II 2270
wheat seed treatment, Tilletia caries/Tilletia foetida 4525

Bacillus mesentericus,

alpha-amylase, starch hydrolysis, low D.E. malto-dextrin 6932 6933
gelatinase 5064 7625
gelatinase, culture medium 6891
milk-clotting enzyme 1663
milk-clotting protease 9418
protease, beer wort 8443
proteolytic enzyme complex 8385

Bacillus mycoides,

antibiotic 792 9114
antibiotic NRC-501 3060
chalcone analogues 8071
gentamicin + prednisolone 1371
protease, hide treatment 8386 8387
slimicide, industrial water system 3124

Bacillus natto,

leucine dehydrogenase 9413
natto, nitrite, nitroso compound 8515
protease, hide treatment 8386 8387

Bacillus polymyxa,

milcozyme, cheese 8494
milk-clotting enzyme, casein/cheese 923
milk, heat resistance 8482
nitrogenase 5487
polymyxin B 4778 5591
polymyxin M 9101
polymyxin S1, antibacterial agent 10324
polymyxin T1, antibacterial agent 10324
polysaccharide, dentifrice 2510
rennet 45
rennet, cheese 6045
soil, denitrification/nitrate reduction 442
soil, Rhizobium 3646
spores, nisin 1430
Streptomyces candidus spore-lytic enzyme 5097

Bacillus popilliae,

insecticide 87

Bacillus pseudoanthracis,

oxazolidine derivatives 5553

Bacillus pumilus,

antibiotic 339-29 5704
antibiotic TA 6621
antihistamine 5549
assay, antibiotics, fish feed 7038
bactericide/sporicide, sterilisation 5602
formaldehyde 5523
gelatine/casein hydrolysis, food 8470
gentamicin + prednisolone 1371
lichenanase, barley glucan/lichenan degradation 852
macromycin 9141
pepsidine C hydrolysis, desacyl-pepsidine/desacyl valyl-pepsinine 4047
pepsidine hydrolase 9426
products, milk, gas-liquid chromatography 919
protease, xanthan gum clarification 3332
radiation sterilisation 10211
resistance, formaldehyde 5523
D-ribose 4118
soil, phages 429
spores, milk 3385

Bacillus pumilus(Contd),

tetracycline sterility testing, radiation sterilisation 6610
wheat seed treatment, Tilletia caries/Tilletia foetida 4525
beta-D-xylosidase 2504

Bacillus sphaericus,

acylanilide degradation, aryl acylamidase 901
animal waste treatment, methane + animal feed 6714
antibiotic NRC-501 3060
1,2-dehydrogenation, D-homosteroid 5978
linuron degradation, aryl acylamidase 901
phenylcarbamate degradation, aryl acylamidase 901
propionamide degradation, aryl acylamidase 901
soil, phages 429
spores, nisin 1430

Bacillus stearothermophilus,

D-alanine carboxypeptidase, penicillin G, 5,5-dimethyl-delta²-thiazoline-4-carboxylic acid 4141
alcohol 5143
antibiotics assay 4719
bacteriocin 4041
cephamycin derivatives 10223
cephamycin-type antibiotic 7399
citrate synthase 2459 3262
cyclodextrin glycosyltransferase 4081
dry heat resistance 10113
ethylene oxide sterilisation 10210
formaldehyde 5523
gardimycin 6638
heat resistance, milk 8483 8484
heat resistance, water activity 6969
homoprotocatechuate 2,3-dioxygenase 5072
infant food 2562
isocitrate dehydrogenase 6898
long-life milk 6123
penicillin assay, milk 2565 3362 8477 8478 9528
6-phosphonogluconate dehydrogenase, Escherichia coli 6-phosphonogluconate dehydrogenase 41
resistance, formaldehyde 5523
restriction endonuclease 5062
soil, phages 429
spores, nisin 1430
steam sterilisation 10205
steam sterilisation, D-value 10206
sterilisation indicator 1274
sterilised milk, nisin 1785
sterility indicator, rendering plant 9482
sucrose assay 3969
sugar industry 939
sulphonamide assay, food 5198
superoxide dismutase 3322
tetracycline assay 9033
threonine deaminase 4110
ultra-high temperature sterilisation 9654 9655 9656
waste treatment 5786
waste treatment, protein/enzymes/vitamins 2313
Bacillus subtilis,
3214 6230 7783
1-[4-(alkoxyphenoxy)-butyl]-1-ethyl-piperidin-ium bromide 2977
2-substituted iodo alkenyl compound 2110
3-deoxydehydrostreptomycin 6594
acylase, 7-aminocyclosporanic acid derivatives 2207
air pollution, high-vacuum steam sterilizer 3735
D-alanine carboxypeptidase, penicillin-binding peptide 6835
beta-alanine transaminase 9355
aminocarbonylthioates 1263 1264
gamma-aminobutyric acid transaminase 9355

Subject index

Bacillus subtilis(Contd),

amylase 5043 8353
 alpha-amylase 8347
 alpha-amylase, beer wort 4157 4158
 alpha-amylase, starch hydrolysis, low D.F.
 malto-dextrin 6932 6933
 antibiotic 19 402 R.P. 3798
 antibiotic 1745A/X 10337
 antibiotic 333-25 1387 1388
 antibiotic 339-29 5704
 antibiotic 342-14-T 4787
 antibiotic 792 9114
 antibiotic A16884 6619
 antibiotic A2041 derivatives 200
 antibiotic A23187 2239
 antibiotic A-26771 139C
 antibiotic ASK-753 1392
 antibiotic AV290 alkylated derivatives 1394
 antibiotic B-43 5705
 antibiotic DE-3935/lonomycin 2242
 antibiotic G-52 1398
 antibiotic G-418 1400
 antibiotic KM-214 2243
 antibiotic No. K-73 3803
 antibiotic NRC-501 3060
 antibiotic P-2355 2244
 antibiotic residues assay, chicken 4230
 antibiotic TA 6621
 antibiotic U-43,120 4126
 antibiotic U-48266 4789
 antibiotic XK-90 5710
 antibiotics reomycin, milk 5206
 aplasmomycin 5717
 L-arginine 9330
 aromatic aminotransferase 1450
 aspartase 5052
 assay, cephalosporin derivatives + protein
 2771
 asukamycin 5719
 ATP-dependent deoxyribonuclease 4085
 azetidinone derivatives 3687
 bacillomycin B, iturin A 5743
 bacillomycin R, iturin A 5743
 bactericide/sporicide, sterilisation 5602
 beef 7014
 beet sugar, iodoacetone bacteriostat 2616
 biological control, *Rhizoctonia solani*,
 cotton 372
 biological control, *Xanthomonas oryzae*, rice
 7220
 bread, heat resistance 7023
 brevistin 2251
 buffalo milk 6040
 butylated hydroxyanisole 5592
 butylated hydroxytoluene 5592
 cairomycin E 6630
 canned meat, heat resistance 5157
 ceftazidime 5654
 cell envelope, ultracytometry, electron
 microscopy 10537
 cell wall 9306
 cephalosporin acetyltransferase, immobilisation,
 7-aminocephalosporanic acid 829
 cephalosporin derivative 1328 1329
 cephalosporin derivatives 1339 1345 2211
 5665 7295 9069
 cephalosporin R-sulphoxides 4736 5637
 cephalosporins 3766
 chalcone analogues 8071
 chemotaxis medium 4941
 alpha-chloro-o-acylbenzaldehyde derivatives,
 industrial water system 3891
 chlorpromazine assay 5840
 coagulase 9377
 copper, intensive care unit 2347
 coumarin derivatives 1227
 crude drugs 3719
 culture filtrate, leaf litter soil fungi
 10051

Bacillus subtilis(Contd),

culture, *Heliothis armigera* nuclear
 polyhedrosis virus 4994
 cycloalkyl-4-oxoquinoline-3-carboxylic acid
 derivatives 2141
 cycloaminocarbodithioate
 2-(2-methyl)-5-nitro-1-imidazolyl)ethyl
 esters 1216
 cysteine desulphhydrase, L-cysteine 6829
 Dactylium dendroides antibiotic 2237
 endo-deoxyribonuclease 4883
 dihalo-sulphonate derivatives 7979
 10,11-dihydrocycromycin 4798
 dimethylaminoethyl-alpha-phenyl-cinnamate
 derivatives 6502
 diols/diol esters 10145
 Diplocadium elegans antibiotic 2237
 disintegration 2365
 DNA, tetracycline 5698
 dry heat resistance 8048 10113
 dry-heat resistance, sporulation medium 6769
 econazole 2974
 enzymes, silage preservative 3418
 epi-bleomycins 5723
 equisetin 1416
 cyclic-erythromycin A 6,9-hemiacetal
 carbonate L-aspartate 5688
 erythromycin D 8167
 esterases, cephalosporin p-nitrobenzyl ester
 de-esterification 6573
 ethylene oxide 3738
 ethylene oxide sterilisation 538 10210
 eumycin, iturin A 5743
 extract, protease removal 6220
 flagellin typing 7549
 flocculation, bentonite 10535
 folded DNA 5990
 formaldehyde 5523
 fortimicin A 8181
 frozen erythrocytes 1293
 furancarabamic acid esters 2143
 garamine derivative 8182
 gardimycin 6638
 gelatine/casein hydrolysis, food 8470
 gentamicin 1-N acyl derivatives 5643
 gentamicin aminocyclitol analogues 6599
 gentamicin C1 derivatives 2225
 gentamicin C1a derivatives 5685
 gentamicin + prednisolone 1371
 beta-glucanase, beer wort 4157 4158
 glucose-6-phosphate dehydrogenase 4092
 glutamate dehydrogenase 7628
 glutamine synthetase 5071
 gramicidin A/gramicidin A analogues 4804
 guanosine 1688 4122
 halocynoacetamide + haloacetic ester 1496
 heat + gamma-irradiation 9012
 heat resistance 4625
 histidinol phosphate aminotransferase 1450
 hydrazide derivatives 5557
 hydrazino-pyridine derivatives 2139
 hyarogen peroxide, culture medium
 sterilisation 8104
 p-hydroxybenzoic acid ester silicon
 derivatives 5551
 imidazole derivatives 2137
 imidazolyl-alkyl-hydrogen monothiosulphate
 derivatives 1221
 indicator, ethylene oxide sterilisation 4696
 inosine 1689
 iodopolymers 1258 1259
 isoleucine 5895
 juvenimicins 7433
 kanamycin B derivatives 6596
 kanamycin derivatives 3785
 Karelian patty, sorbic acid/sorbate 8551
 kasugamycin guanidino derivatives 3808
 lasalocid sodium assay, animal feed 5244
 laterosporamine 2261
 levomepromazine assay 5840

Subject index

Bacillus subtilis(Contd),

lipase, Cheddar cheese 157
 lividomycin B derivatives 1422
 lupin, soil microorganisms 2888
 magnesidin 3810
 magnesidin-related tetramic acid derivatives 8976
 marsh, antibiotics 3056
 medermycin 4812
 metalloendoproteinase, chromatography 3291
 methoxychlor degradation 8458
 miconazole 2974
 microbial degradation 8458
 Microzyme, cheese 8495
 milk 139
 milk assay, heat-sensitive inhibitors 6041
 milk, heat resistance 8482
 negamycin analogues 642
 4-nitrophenyl mercapto acetic acid hydrazide 7327
 N-nitroso-N-methylcarbamate mutagenicity assay 3955
 nocardicin B 7440
 nyphimycin A1-scopafungin 644
 oxamicetin 3073
 7-oxo-1,3-diazabicyclo[3.2.0]heptane-2-carboxylic acid 8121
 n-oxypridyl thiol aluminium derivatives 749
 Paraeolus antibiotics 6545
 Parthenium hysterophorus extract 2932
 patulin 2633
 Pellicularia sasakii/Pellicularia filamentosa cell wall-lysing enzyme complex 4072
 penicillanic acid derivatives 606
 penicillin assay, milk 2565 3382
 penicillin R-sulphoxides 4736 5637
 2-phenyl-1,2,3-triazole-4-carboxylic acid hydrazide 7327
 2-phenyl-1,2,3-triazole-4-carboxylic acid-sulphonyl hydrazide 7327
 phenyl-indole derivatives 6530
 phenylmercuric nitrate/phenylmercuric acetate heat treatment, sterilisation 6538
 phosphatase 5966
 polygalacturonate lyase 5086
 polymyxin B 7415
 pork, microwave/oven cooking 6080
 promethazine assay 5840
 propyl gallate 5592
 protease 2493 2494 5043
 protease, beer wort 8443
 protease, hide treatment 8386 8387
 protease, immobilisation 9352 9353
 protease, xanthan gum clarification 3332
 protein, nucleic acid content reduction, food 3380
 pyrazole derivatives 5557
 pyridazine-2-oxide derivatives 3932
 pyrimidine derivatives 502
 quaternary ammonium compounds 1535 2145 2146
 quinolizine-2-carboxylic acid derivatives 4694
 quinolizine derivatives 8100
 quinoxaline derivatives 5598
 rancinamycin I/rancinamycin II/rancinamycin III/rancinamycin IV 5759
 reference strains kit, rapid genetic mapping 7550
 rennet 45 3317
 resistance, D-cycloserine 8056 8057
 resistance, formaldehyde 5523
 riboflavin 66
 ribofuranosyl-1,2,3-triazole derivatives 3727
 ribonuclease 861
 ribonuclease M5 7661
 D-ribose 4118
 RNA polymerase 5096
 RNA polymerase L1 6921
 RNA polymerase L2 6921

Bacillus subtilis(Contd),

s-triazinyl aryl/alkyl sulphones 1215
 N-salicylsulphonyl amino acid derivatives 3683
 seed treatment, Austrian pine, Fusarium solani 10001
 serine protease 3313
 sisomicin 1-N acyl derivatives 5643
 slimicide, industrial water system 3124
 soil, phages 429
 soybean seed 4310
 soybean seed, penicillin G seed treatment 8615
 sporamycin 6940 8420
 spores, milk 3585
 spores, nisin 1430 1431 1432 1433
 spores, nisin, milk preservation 961 962
 steffimycinone 8193
 sterilised milk, nisin 1785
 streptomycin A 5763
 Streptomyces antibiotics 9025
 Streptomyces candidus spore-lytic enzyme 5097
 streptomycin, lipids 9053
 streptovaricin isomers 1443
 subtilisin 8347 9435
 subtilisin, N-acyl-L-methionine 2424
 subtilisin, affinity chromatography, carbobenzoxy-D-phenylalanyl-triethylenetetramine 5090
 subtilisopeptidase A, immobilization 4056
 subtilisopeptidase A, structure 1628
 subtilisopeptidase, affinity chromatography, carbobenzoxy-D-phenylalanyl-triethylenetetramine 5090
 sulphadiazine derivatives 6498
 sulthathiazole derivatives 6498
 sulphonamide derivatives 6528
 sulphonylamino acid derivatives 6499
 sulphonylhydrazide derivatives 5557
 thermoradiation 1277
 thienopyridine-carboxylic acid derivatives 503 2944
 thiocarbamoyl sulphonamide derivatives, detergent 9228
 thiocillin I/thiocillin II/thiocillin III 2270
 4-thiouracil 6653
 tolerance, beta-lactam antibiotic 2168
 trimethoxybenzoylamino acid derivatives 8095
 triorganotin compounds/triorganolead compounds 2129
 tubaic acid 3682
 verdamycin 1-N acyl derivatives 5643
 virazole 7675
 virginiamycin 2275
 waste treatment 10466
 wheat seed treatment, Tilletia caries/Tilletia foetida 4525
 xylostasin 654
Bacillus thermoglucosidius,
 alpha-D-glucoside glucohydrolase 3279
Bacillus thermoindifferens,
 waste treatment 5786
 waste treatment, protein/enzymes/vitamins 2313
Bacillus thermoproteolyticus,
 thermolysin 9351 9437
Bacillus thiaminolyticus,
 germination inducer, alanine-containing peptide derivatives 6506
Bacillus thuringiensis,
 3214
 aflatoxin E1 7819 9703
 amylase 9360
 chitinase 5058
 delta-endotoxin 2652
 endotoxin, insecticide 3441

Subject index

Bacillus thuringiensis(Contd),

- delta-endo toxin, insecticide 8578
- exotoxin, C-mitotic agent 2653
- indicator, steam sterilisation 4696
- insecticide 5157 8474 9487 9489
- insecticide, Colorado potato beetle 4150
- insecticide, *Galleria mellonella*, beecomb 3442
- insecticide, Indian meal moth 2541
- parasporal crystal, insecticide, tobacco hornworm assay 7080
- parasporal crystal protoxin, insecticide 7079
- Parthenium hysterophorus* extract 2932
- protein, antitumour agent, Yoshida ascites sarcoma 67
- thuringiensin, structure 8579

Bacillus uniflagellatus,

- plant growth stimulant 8307

Bacillus violaceus,

- waste treatment 5786
- waste treatment, protein/enzymes/vitamins 2312

Bacillus vitellinus,

- 654

Bacitracin,

- 4711

- + sulphamethoxazole-trimethoprim discs,

- Streptococcus group A/Streptococcus group B 1575

- animal feed, assay, *Micrococcus flavus* 4231

- animal feed, turbidimetric assay,

- Streptococcus faecalis* 949

- antibacterial agent, animal feed 5104

- assay 9033

- Bacillus* 9054

- Bacillus coagulans*, lysine 6831

- Bacillus licheniformis*, metal ions 3049

- Bacillus megaterium*, lysine 6831

- blood agar medium, streptococcus group A 4971

- chicken feed, residues 4270 7783

- dental plaque/dental caries 747

- hydroxypropyl methylcellulose artificial tear solution 4712

- milk, assay, *Sarcina lutea*/*Bacillus subtilis* 5206

- milk, thin-layer chromatography 1722

- Staphylococcus aureus* L-form 3750

- zinc-, rabbit feed 6102

Bacitracin sensitivity testing,

- Streptococcus* group A 10596

Backflow coefficient,

- multistage tower fermenter 9499

Bacon,

- curing, bribe quality control 4241

- sliced, vacuum-packaged, deep freeze storage,

- shelf-life 4242

- vacuum-packaged, nitrate curing 5256

- vacuum-packaged, Clostridium 180

Bacon factory,

- cold water ultra-high pressure cleaning 5813

Bactec system,

- bacteraemia 1554

- septicaemia 1554

Bacteraemia,

- Bactec system 1554

- blood culture 1555

- hypertonic culture medium 3962

- radiometry 10540

Bactericidal factor,

- Haemophilus influenzae* 4844

Bactericide(Contd),

- 494 1256 2936 6524

- 2-amidocarbonylthio-barbituric acids, plant protection 2027

- 3-chloro-2-oxazolidinones 7322

- + bacteriostat, penicillin/cephalothin +

- colitetracycline, *Escherichia coli*/*Staphylococcus aureus* 3754

- air 8206

- aliphatic alcohols 5552

- alkyltin cyclopropyl derivatives 1260

- alkyltrimethylammonium bromides 10164

- ampicillin, *Haemophilus influenzae* 5640

- ampicillin, *Listeria monocytogenes* 5671

- ampicillin + quinacrine/ethidium

- bromide/tilorone/nitroakridin, *Salmonella typhimurium* 4766

- anthracycline antibiotics + ultraviolet

- radiation/mitomycin c 5747

- antibiotic F-1028, plant protection 1395

- 1396

- antibiotics, *Listeria monocytogenes* 5629

- antiseptic 3137

- bacterial diseases, rice 1029

- benzothiazolinone + quaternary ammonium

- compound 4687

- benzoic acid, dialysis fluid 3142

- beta-naphthols 5552

- bicyclic polyoxymethylene-oxazolidines 471

- epsilon-caprolactam + alkanediamine

- derivatives 2149

- carbamoyloxy-benzamide derivatives 4691

- cephalosporin derivatives 2214

- chloramphenicol 10261

- chloramphenicol + gentamicin 10261

- chloramphenicol, *Haemophilus influenzae* 5640

- chloramphenicol + penicillin G,

- Staphylococcus aureus* 8127

- chlorhexidine/iodophor/quaternary ammonium

- compound/hypochlorite test dip, cattle

- mastitis 3922

- chlorine wash, beef carcass 741

- alpha-chloro-o-acylbenzaldehyde derivatives,

- industrial water system 3891

- N-chlorocarboxylic acid derivatives 529

- chlorodicyano benzene organosulphur

- derivatives 5595

- clindamycin 10261

- clindamycin + gentamicin 10261

- cocoa powder, *Salmonella*, enrichment medium

- 7.32

- Coelastrium protoscium*, *Staphylococcus*

- aureus* 6444

- cooling tower 7345

- copper compound, plant protection 2026

- crude oil degradation 10110

- cyanodithioimidocarbonic acid derivatives

- 1261

- cyanodithioimidocarbonic acid derivatives,

- plant protection 1261

- cyclic dimedone derivatives 1265

- dental plaque, hydroxyapatite-coated glass

- beads 2107

- dibromoisocyanuric acid, hand disinfection

- 1518

- dinitro-bithiophene derivatives 8098

- dinitro-thiophenamine derivatives 2942

- dinitrothiophene derivatives, plant

- protection 7987

- bis(diphenylaminomethane) derivatives 1265

- bis(diphenylaminomethane) derivatives, plant

- protection 1265

- disinfectant 496

- disinfectants 8245

- dithiocarbamate derivatives 6526

- dithiocarbamate derivatives, plant protection

- 4526

- Erwinia amylovora*, pear 5439

- Erwinia carotovora*, corn 8827

- formol 496

Subject index

Bactericide(Contd),

fostomycin 2259
gentamicin 10261
L-glyceraldehyde 3-phosphate, *Escherichia coli* 4656
haloacetoacetamide + haloacetic ester, industrial water systems 1496
hexachlorophene, effluent, microbial degradation 689
hexamethylene tetramine, animal feed 2602
hospital carpet 8248
hydrazino-pyridine derivatives 2139
hydrogen peroxide, *Escherichia coli*, catalase 2934
2-hydroxy-3-(cyclohexylpropyl)-1,4-naphthoquinone 3690
hypochlorous acid, meat 965
imiazolenine derivatives, plant protection 998
imidazolidine-1,4-dione derivatives 2135
industrial water system 717 1494 3124 7345
iodinated alcohol 6737
irradiated starch, *Escherichia coli* 10140
irradiated starch extracts 5546
isothiazole derivatives 1268
isothiazolidin-3-one derivatives, plant protection 8833
isothiazolopyridinone derivatives 2975
KezcoSol-11, abattoir disinfectant 4897
beta-lactam antibiotics 6553
laundry oil 2341
macromycin 9141
mercurated sulphonamides 1262
metal working fluid 7345
methyl bromide, nuts 8553
methylene bithiocyanate, industrial water systems 1495
monocyclic polyoxymethyleneoxazolidine 2090
N-methyl-N-alkoxycarbonylsulphenyl-carbamate derivatives, plant protection 3596
(N-trimethylthio)-carbamic acid oxime ester derivatives, plant protection 9987
nitrofur derivatives 1220
nitrofuryl-vinyl-anilino-quinazoline derivatives 6504
oil, 7288
paint 7345
paper mill 7345
petroleum 7288
phenol 496
phenols + acetoacetic acid esters 2133
phenols + polyacetoacetic acid esters, phenol, + polyacetoacetic acid esters, fungicide/bactericide 2132
phenylmercuric nitrate/phenylmercuric acetate heat treatment, *Bacillus subtilis*, sterilisation 6538
N-phosphinyl-amidine/N-phosphinothioyl-amidine derivatives, plant protection 7224
phosphoryl phenyldiamine derivatives, plant protection 1118
plant protection 4292
povidone iodine 6737
preservatives 2157 4653
Pseudomonas aeruginosa bacteriocin, *Neisseria gonorrhoeae* 647
pyridine derivatives, plant protection 2823
quaternary ammonium compounds, cosmetic 5803
quaternary ammonium compounds 2319
quaternary ammonium methylene phosphonates 2731
quinazoline derivatives 7037
resistance, bacteria 10532
rosemary spice extractive, meat 6126
seed treatment, 2-bromo-2-nitropropan-1,3-diol, *Helminthosporium rostratum*, wheat 4524
silkworm larva haemolymph 7315
slimicide 7345
sodium hydroxide 496

Bactericide(Contd),

sodium hypochlorite 496
sterilisation 5402
straw/alfalfa degradation, soil microorganisms 8927
streptomycin seed treatment, *Pseudomonas phaseolicola*, bean 406
sulphonic acid esters 3724
sulphur-containing chlorobenzonitrile derivatives 8832
sulphur-containing chlorobenzonitrile derivatives, plant protection 8832
teat dip, mastitis, cattle 736
thiadiazole derivatives, plant protection 3547
thiazinium derivatives 3725
thiocyanate derivatives 2972
thiophosphoric acid ester amide derivatives, plant protection 1117
tinidazole/metronidazole, *Bacteroides fragilis* 8069
tinidazole/metronidazole, *Clostridium* 8069
tinidazole/metronidazole/nitroazole/spectinomycin, *Bacteroides* 8068
tinidazole/metronidazole, *Peptostreptococcus* 8069
toilet 737
triazenoimidazoles 1271
triazine derivatives 10193
triazineone derivatives, plant protection 1119
trichloro-2-hydroxy diphenyl ether, soap 4907
trifluoromethyl phenyl-2-(3',5'-dicyanophenyl)urea 2140
triorganotin compounds/triorganolead compounds 2129
ultraviolet radiation, sewage disinfection 1466
Vega disinfectant 9232
Bacteriochlorophyll b,
Rhodospseudomonas viridis photochemical reaction centre 6944
Bacteriocin,
apocin 84, adenine nucleotide 6-N-phosphoramidate, *Agrobacterium radiobacter* 5991
antibacterial agent 2439
antibacterial agent, plant protection 3593
Bacillus stearothermophilus 4041
clostocin O, *Clostridium saccharoperbutylacetonicum* 3065 3066 3067
Clostridium perfringens, nitomycin C 8328
colicin C111, *Escherichia coli* 4043
gonocin, *Neisseria gonorrhoeae* 819
Lactobacillus 6626
Lactobacillus, antibacterial agent, *Lactobacillus* 9127
megacin C, *Bacillus megaterium* 5031
megacin Cx, *Bacillus megaterium* 5031
morganocin, *Escherichia coli* 5910
morganocin, *Proteus mirabilis* 5910
morganocin, *Proteus morganii* 5910
morganocin, *Providencia* 5910
proteocine, *Proteus* 4044
proteocine, *Proteus mirabilis*/*Proteus vulgaris* 2441
proticine, typing, *Proteus* 5849
Pseudomonas aeruginosa 6845
Pseudomonas aeruginosa, *Neisseria gonorrhoeae* 647
pyocin cetrimide, *Pseudomonas aeruginosa*, medium 4045
staphylococcin, *Staphylococcus* 5911
streptococcin, *Streptococcus* group A L-form 4046
Streptococcus group D, food, antibacterial agent 2559
Streptococcus mutans 8329
typing 7546

Subject index

- welchicin, *Clostridium perfringens* enterotoxin 7854
- Bacteriocin 84,**
Agrobacterium radiobacter, crown gall 3456
- Bacteriocin typing,**
Klebsiella 3578
Lactobacillus acidophilus 7566
Lactobacillus casei/Lactobacillus plantarum 3179
Lactobacillus helveticus 7566
Lactobacillus jugurti 7566
Lactobacillus sativarius 7566
Serratia marcescens 10589
Streptococcus 10593
- Bacteriolysis,**
surface water 7503
- Bacteriolytic agent,**
cephalosporins 4754
- Bacteriolytic enzyme,**
Achromobacter lunatus, immobilisation 6851
- Bacteriophage,**
see Phage
aflatoxin B1 2627
rubratoxin B 2627
- Bacteriophytin b,**
Rhodospseudomonas viridis photochemical reaction centre 6944
- Bacteriorhodopsin,**
lipid-free, Halobacterium halobium 8330
- Bacteriostasis,**
soil 2857
soil, rhizosphere 3626
- Bacteriostat,**
494 1256
+ bactericide, penicillin/cephalothin + colitetracycline, Escherichia coli/Staphylococcus aureus 3754
amino acid sulphilimines 2111
antibiotics, Listeria monocytogenes 5629
assay, continuous distillation extraction apparatus 3681
benzanilide derivatives 1217
benzisothiazolin-3-one derivatives 534
beta-aminoketones 2108
epsilon-caprolactam + alkanediamine derivatives 2149
chelocardin anilino derivatives 3064
5-chloro-2-(2,4-dichlorophenoxy)phenol, toilet bowl 4891
cinnamanilide 7320
Coelastrum proboscideum, Staphylococcus aureus 6494
coumarin derivatives 1227
cyclohexylamine derivatives, paper products 10091
diaper 5817
dimethylol dimethylhydantoin 3903
enterocin 1415
hexachlorophene, skin 4905
iodoacetone, beet sugar 2616
kojic acid analogues 1223
beta-lactam antibiotics 6553
lamb carcass 177
beta-nitroethanol derivatives 8984
nitrothiazole derivatives 1269
rosemary spice extractive, meat 6126
sodium nitrite + hexamethylene tetramine, silage 1774
6-spirocycloalkylamino 5-nitropyrimidine derivatives 2947
sulphamoylquinoline-dione derivatives 5562
thiocarbamoyl sulphonamide derivatives, detergent 9228
toilet bowl cleanser 6730 6731
triazolo-pyridazine derivatives 2117
tribromosalan, skin 4905
triclosan, skin 4905
- Bacterium,**
alpine tundra soil 5469
- Bacterium cadaveris,**
immobilisation 803
- Bacterium cyclooxygenases,**
daunorubicin reduction, antibiotic 20,798 R.F. 9457
- Bacterium delbrueckii,**
proteolytic malt 1698
- Bacterium lineus,**
sheep cheese 6066
- Bacterium papaveris,**
poppy 3520
- Bacterium prodigiosum,**
washroom hygiene, food factory 3929
- Bacterium proteus,**
cephalosporin derivatives 1313 2209 3006
penicillin derivatives 1313 3006
- Bacteriuria,**
antibacterial sensitivity, dip-slide 2931
antibody-coated bacteria test 10542
Bactometer microbial monitoring system 10541
cystine-lactose electrolyte deficient medium + droplet plating 3963
dip-strip 4932
- Bacteroid,**
Rhizobium leguminosarum, pea 4590
- Bacteroidaceae,**
cefoxitin/cephalothin 10273
mezlocillin/azlocillin/carbenicillin 10288
penicillin derivatives 1356 1357
- Bacteroides,**
antibiotic sensitivity testing 2165
antibiotics 2994
blood agar medium 3956
blood culture 768
cefamandole 3772
cephalosporins 2195 3010
chloramphenicol resistance 5540
enzymes 3249
josamycin 640
josamycin/rosamicin/clindamycin 2190
miniaturized counting technique 4935
penicillins 3010
phosphomycin 3074
quinolizidine-2-carboxylic acid derivatives 4694
roll-streak method 1556
swine faeces, culture/isolation/identification medium 4938
tetracycline resistance 5540
ticarcillin/carbenicillin/penicillin 5673
tinidazole/metronidazole/nimorazole/spectinomycin 8068
- Bacteroides amylophilus,**
alpha-amylase 5049
rumen, ATP 6762
- Bacteroides capillosus,**
cephalosporins 3010
penicillins 3010
- Bacteroides coagulans,**
enzymes 3249
- Bacteroides corrodens,**
cephalosporins 3010
penicillins 3010
- Bacteroides distans,**
catalase 5044
superoxide dismutase 5044
- Bacteroides fragilis,**
antibiotic sensitivity test 2996
antibiotic sensitivity testing 2165 2166 10232
antibiotics 2994
azlocillin 10293
bile disc test + kanamycin sensitivity testing 10553
blood agar medium 3956
cefazolin 8135
cefoxitin 8135
cefoxitin/cephalothin 10273
cefuroxime/cephalothin 10277

Subject index

- Bacteroides fragilis(Contd),**
 cephalosporinase, cefoxitin 7407
 cephalosporins 3010
 cephalothin 8135
 cephradine 8135
 chloramphenicol 10261
 chloramphenicol + gentamicin 10261
 cholyglycine hydrolase 3260
 clindamycin 10261
 clindamycin + gentamicin 10261
 culture medium, antibiotic sensitivity
 testing 6764
 endotoxin, fatty acids 7848
 enzymes 3249
 erythromycin + cefamandole 8129
 gentamicin 10261
 glutamic decarboxylase test 4929
 identification test 10549
 isolation system 1557
 josamycin 640
 josamycin/rosamicin/clindamycin 2190
 mezlocillin/azlocillin/carbenicillin 10288
 modified plate holding system 10547
 O antigen 63
 penicillins 3010
 preservation 4703
 tests, impregnated disc method 10548
 thiamphenicol/chloramphenicol 9096
 ticarcillin/carbenicillin/penicillin 5673
 ticarcillin/cefoxitin/carbenicillin/cephaloth
 in/penicillin/metronidazole/clindamycin/chlo
 ramphenicol 7375
 tinidazole/metronidazole 8069
- Bacteroides melaninogenicus,**
 antibiotic sensitivity testing 2165
 blood agar medium 3956
 casamino acids culture medium 4942
 cefoxitin/cephalothin 10273
 cephalosporins 3010
 culture 3954
 identification test 10549
 beta-lactamase, penicillins/cephalosporins
 4640
 penicillin resistance, penicillinase 7303
 penicillins 3010
 tests, impregnated disc method 10548
- Bacteroides melanogenicus,**
 preservation 4703
- Bacteroides nodosus,**
 proteinase 5092
- Bacteroides oralis,**
 cefoxitin/cephalothin 10273
 cephalosporins 3010
 beta-lactamase, penicillins/cephalosporins
 4640
 penicillins 3010
 thiamphenicol/chloramphenicol 9096
- Bacteroides pneumosintes,**
 cephalosporins 3010
 penicillins 3010
- Bacteroides ruminicola,**
 antibiotic sensitivity testing 2165
 cephalosporins 3010
 penicillins 3010
 rumen, ATP 6782
 ruminant feed, milk 944
 urease assay 8271
- Bacteroides splanchnicus,**
 cefoxitin/cephalothin 10273
- Bacteroides succinogenes,**
 rumen, ATP 6782
- Bacteroides thalotaomicon,**
 cephalosporins 3010
 penicillins 3010
- Bacteroides thalotamicon,**
 cefoxitin/cephalothin 10273
- Bacteroides thalotaomicon,**
 mezlocillin/azlocillin/carbenicillin 10288
 thiamphenicol/chloramphenicol 9096
- Bacteroides variabilis,**
 cefoxitin/cephalothin 10273
- Bacteroides vulgatus,**
 cefoxitin/cephalothin 10273
- Bactometer microbial monitoring system,**
 bacteriuria 10541
- Bactospeine Flowable,**
 Indian meal moth 2541
- Bactospeine WP,**
 Indian meal moth 2541
- Baffle plate,**
 fermenter 6009
- Bahia grass,**
 + bacteria, nitrogen fixation 8895
- Baird-Parker medium,**
 Staphylococcus aureus, food 7724
- Bajra,**
 Claviceps microcephala 2692
 Helminthosporium sacchari 1024
 Pyricularia penniseti 1025
 Sclerospora graminicola 1026
 seed, Aspergillus flavus 1332
- Baked bean waste,**
 Aspergillus fortidus amylase 8354
- Bakelite,**
 microbial degradation 5195
- Baker's yeast,**
 see also Saccharomyces cerevisiae
- Bakery,**
 dust, fungi 9172
- Baking,**
 Saccharomyces cerevisiae culture 6796
- Bakthane,**
 Galleria mellonella, beecomb 3442
- Balania claviceps,**
 Cyrtococcum trigonum 2686
 Isachne dispar 2686
- Ballistic disintegration,**
 microorganisms 10531
- Balsam pear,**
 Sphaerotheca fuliginea 1056
- Bambermycin,**
 assay 9033
 pig feed, Salmonella typhimurium 205
 turkey feed 953
- Bamboo,**
 Aciculosporium take 8622
- Banana,**
 Bacillus cereus haemolysin 7078
 Botrytis cinerea post-harvest decay 8751
 Colletotrichum musae 4432
 Colletotrichum musae post-harvest decay,
 imazalil 3540
 Fusarium moniliforme post-harvest decay 7186
 Fusarium oxysporum 6241
 Fusarium solani post-harvest decay 7187
 Guignardia musae 7105
 Helminthosporium speciferum post-harvest
 decay 9910
 Mycosphaerella fijiensis 298 5350
 Mycosphaerella fijiensis, benomyl tolerance
 6369
 Mycosphaerella musicola 4289 5350
 post-harvest decay, Colletotrichum musae
 4433
 post-harvest decay, fungicide 345
 post-harvest decay, Fusarium 4433
 post-harvest decay, preservation 344
 post-harvest decay, Verticillium theobromae
 4433
 post-harvest decay, Rhizopus oryzae,
 fungicide 1965
- Banksia marginata,**
 Phytophthora cinnamomi 8596
- Barban,**
 soil microorganisms 2087
- Barbiturate,**
 sterilisation, gamma-irradiation 5601

Subject index

Barbituric acid,

- 2-amidocarbonylthio-, bactericide/fungicide, plant protection 2027
- derivatives, antibacterial agent/antifungal agent 2140

Bark,

- tree, composting 7488
- tree, microbial fermentation, fertiliser/animal feed 7488

Barleria crystata,

- Chaetophoma oleacina 1836

Barley,

- + wheat, Erysiphe graminis hordei 8620
- acetic acid, soil, wheat straw degradation 7251
- Alternaria trititica 6204
- animal feed, mycotoxins 5262
- barley stripe mosaic virus 1831 1862 4321 5316 8623
- barley yellow dwarf virus, aphid 4322 7119
- Bipolaris sorokiniana 4327
- brome mosaic virus 7877
- bromegrass mosaic virus + tobacco mosaic virus 7878
- Chloris striate mosaic disease, Rhodes grass 7128
- Claviceps purpurea, barley stripe mosaic virus 2628
- Claviceps purpurea honeydew, antifungal agent 4323
- Cochliobolus sativus 270 2626
- Drechslera teres 6206
- Erysiphe graminis, 2-aminopyrimidine derivatives 395
- Erysiphe graminis hordei 252 1863 1864 1865 3474 4324 4325 4326 5317 7879 8627 8628 9774 9775 9776
- Erysiphe graminis hordei, diphenyl pyrazolium derivatives 1114
- Erysiphe graminis hordei, imidazo-pyrimidine derivatives 4512
- Erysiphe graminis hordei, iodine staining 8594
- Erysiphe graminis hordei, pyrazolium derivatives 2812 3581 4511
- Erysiphe graminis hordei, triazole derivatives 7209
- Erysiphe graminis hordei, triforine seed treatment 2826
- Erysiphe graminis, triazinedione derivatives 1119
- Erysiphe graminis tritici 9775
- Erysiphe graminis tritici, fungicide 378
- fungal diseases 2685
- fungal diseases, diallate 269
- Fusarium 6203
- Fusarium avenaceum 8621
- Fusarium avenaceum, soil 7876
- Fusarium culmorum 8621
- Fusarium culmorum, soil 7876
- Fusarium graminearum 8621
- Fusarium poae 2621
- Fusarium solani, soil 7876
- Fusarium tritinctum 8621
- grain, Fusarium, zearalenone 2638
- grain, preservation, ammonia 1797
- grain, preservation, citral caproate/allyl caproate, Aspergillus candidus, pig feed 9908
- grains, sterigmatocystin, chromatography thin-layer 7834
- Helminthosporium gramineum 2689 3475 4315 6204
- Helminthosporium gramineum, sporulation medium 1594
- Helminthosporium sativum, ethirimol 6205
- Helminthosporium sativum, nitrogen/ethirimol 4328
- Helminthosporium sativum, soil 7876
- Helminthosporium sativum toxin 2630

Barley (Contd),

- Helminthosporium teres 4315 6204 8629
- oat blue dwarf virus 8625
- Pleospora 6204
- protoplasts, brome mosaic virus 8624
- Puccinia graminis 272
- Puccinia graminis hordei 4319
- Puccinia hordei 1866
- Puccinia hordei, oxycarboxin 2003
- Puccinia hordei, spectral reflectance 7120
- Puccinia hordei, zineb 2003
- Puccinia striiformis 3476
- Pyrenophora teres 3477 9777
- Pythium oraminicola 6208
- resistance, Erysiphe graminis hordei 7195 8627 8767
- resistance, fungal diseases 2685 9928
- resistance, Gaumannomyces graminis 355 356
- resistance, mildew 1980
- resistance, Puccinia hordei 1981 1982 8768 9929
- resistance, Puccinia striiformis 8769
- resistance, Pyrenophora teres 9777
- rhizosphere bacteria, phosphate 5470
- rhizosphere, microorganisms 4560
- Rhynchosporium secalis 3478 6209 9778
- Sclerophthora macrospora 4335
- seed, Aspergillus repens 2687
- seed, Fusarium culmorum 2687
- seed, microflora, beer 7697
- seed, Penicillium cyclopium 2687
- seed, Pyrenophora graminea 6207
- seed, Pyrenophora teres 6207
- seed testing, barley stripe mosaic virus 273
- Selenophoma donacis 4329
- soil, Cochliobolus sativus 2868
- Stemphylium 6204
- Stemphylium vesicarium 6204
- Tilletia controversa 4320
- Tilletia hordei 4320
- Ustilago, BAS 3191 F 1109
- Ustilago hordei 2690 3479 4315 4320
- Ustilago nigra 5318
- Ustilago nuda 4315 4320 8630
- Ustilago nuda, furan-3-carboxamide derivatives 1112
- Ustilago nuda, seed treatment, organic compounds 6377
- Verticillium dahliae 254
- Barley flour inoculant,**
- Trichoderma viride 788
- Barley straw amendment,**
- soil, Verticillium albo-atrum, potato 5415
- Barley stripe mosaic virus,**
- barley 1831 1862 4321 5316 8623
- barley seed testing 273
- Claviceps purpurea, barley 2688
- wheat 4348
- Barley yellow dwarf virus,**
- barley, aphid 4322 7119
- grasses 2691
- Italian ryegrass 6225
- perennial ryegrass 6225
- BAS 2203 F,**
- Hemileia vastatrix, coffee 5422
- Melampsora lini, flax 8801
- BAS 3050 F,**
- fungicide, plant protection 1109
- Puccinia sorghi, corn 9963
- Rhizoctonia solani, cauliflower 1103
- Sclerotium rolfsii, sugarbeet 1110
- BAS 31703F,**
- Melampsora larici-populina, poplar 2047
- BAS 3170 F,**
- fungicide, plant protection 1109
- BAS 3191 F,**
- seed dressing fungicide, plant protection 1109
- BAS 3460 F,**
- Physoderma maydis, corn 8794

Subject index

- BAS 38601F,**
Colletotrichum, fig 5421
- Basagran,**
soil, Fusarium solani, bean 10C73
- Basal rot,**
Fusarium oxysporum, narcissus 7924
Fusarium oxysporum, narcissus, formaldehyde +
hot water 7978
- Basal stem rot,**
Rhizoctonia solani, chrysanthemum 9856
Sclerotinia sclerotiorum, sunflower 8734
- Basamid,**
Plasmodiophora brassicae, cabbage 6358
soil fumigant, Phytophthora nicotianae,
tobacco 9971
soil fumigation, Sclerotinia sclerotiorum
7282
- Basidiobolus ranarum,**
acenaphthene 513
- Basidiomycetes,**
snow mould, turfgrass, fungicide 4485
- Basidiomycetes,**
furoic amide derivatives, plant protection
8813
beta-(1,3)-D-glucanase 3276
tetrad analysis 10615
wood, selective medium 7245
xylanase 9438
- Bat,**
faeces, Microsporium gypseum 6423
faeces, Scopulariopsis brevicaulis 6423
faeces, Trichophyton mentagrophytes 6423
faeces, Trichophyton terrestre 6423
guano, soil, Histoplasma capsulatum 2066
- Bathroom article,**
steriliser 1280
- Bavistin,**
Cercospora personata, Cercospora
arachidicola, groundnut peavine 8792
Collettoporella herpotrichoides, wheat 8797
Colletotrichum, fig 5421
Colletotrichum lagenarium, bottlegourd 6357
Colletotrichum lagenarium, watermelon 6357
Diplodia natalensis, orange post-harvest
decay 6318
Helminthosporium sativum 8791
Penicillium digitatum, orange post-harvest
decay 6318
Penicillium expansum, apple post-harvest
decay 8749
Phomopsis citri, orange post-harvest decay
6318
Physotherma maydis, corn 8793
Puccinia sorghi, corn 9963
resistance, Colletotrichum coffeanum, coffee
2921
Rhizoctonia bataticola, chilli 6370
Rhizoctonia solani, cauliflower 1103
Sclerotinia sclerotiorum, orange post-harvest
decay 6318
seed dressing, Ustilago tritici, wheat 5440
walnut, fungicide 5465
wheat leaf microflora 379
- Bavistin M,**
Septoria tritici, wheat 9964
- Bay 18654,**
Sphaerotheca fuliginea, cucurbit 4491
- Bay 22555,**
Pythium ultimum, larkspur 2805
- Bay 6447,**
Sphaerotheca fuliginea, cucurbit 4491
- Bay Meb 6447,**
Guignardia bidwellii, grape 8802
Ovulinia azaleae, azalea 8819
- BCG vaccine,**
3088 3827 3828 3829 6663 10425 10426
preservation 565
- Bdellovibrio,**
symbiosis 5876
- Bdellovibrio bacteriovorus,**
culture 9269
food 7717
- Beach gravel,**
oil degradation 8046
- Bean,**
+ Rhizobium, nitrogen fixation 447
+ Rhizobium phaseoli, nitrogen fixation 5491
8901
Acrobacterium tumefaciens 6182
Alternaria alternata 9755
baked, waste, Aspergillus foetidus amylase
8354
bean common mosaic virus 6177
bean curly dwarf mosaic virus 6178
bean golden yellow mosaic virus 5302
bean mild mosaic virus 6170
bean yellow mosaic virus 1831
bean yellow stipple virus 6180
bean yellow stipple virus, electron
microscopy 7864
beet curly top virus, latex flocculation
assay 10628
broad 9703
broad, Botrytis cinerea, leaf mycoflora 2660
broad, Botrytis fabae, leaf mycoflora 2660
broad, broad bean mosaic virus, antiviral
agent 3591 8996
broad, broad bean stain virus 259
broad, broad bean stain virus/Echtes
Ackerbohenmosaik-virus 1007
broad, broad bean strain virus 3459
broad, broad bean wilt virus 7104
broad, corn stunt Spiroplasma 9782
broad, Echtes Ackerbohenmosaik-Virus 3459
broad, fungal spores 7106
broad, Microsphaera penicillata 8606
broad, pea early-browning virus 5306
broad, pea enation mosaic virus 5307
broad, pea leaf roll virus 2667
broad, + Rhizobium leguminosarum, nitrogen
fixation 8902
broad, + Rhizobium, nitrogen fixation 448
8903
broad, + Rhizobium, nitrogen fixation,
pesticides 6443
broad, Uromyces fabae, cold treatment 9949
broad, Uromyces viciae-fabae, pyrazole
derivatives 6368
broad, wyeone epoxide, Botrytis
cinerea/Botrytis fabae 373
butterfly, Clitoria yellow vein virus 6181
carob, flour, microbiology 3405
castor, seed, Aspergillus flavus 1838
cluster, Alternaria cyamopsidis 2672
cluster, Curvularia lunata, fungicide 2002
cluster, Thielavia terricola, culture medium
1004
Colletotrichum lindemuthianum 4288 6183 9756
Colletotrichum lindemuthianum, biological
control, Colletotrichum 1999
Colletotrichum lindemuthianum, fungicide 384
Colletotrichum lindemuthianum, phaseollin
6349 8787
cucumber mosaic virus 257
dried, mycoflora 9595
Erwinia carotovora 258 9754
Erysiphe polygoni, phthalimide derivatives
2815
fungal stem rot 7870
fungicide seed treatment 7990
Fusarium solani 8604
Fusarium solani, kievitone 8736
Fusarium solani, soil, fungistasis 9757
Fusarium solani, soil herbicide 10073
horse, + Rhizobium, nitrogen fixation 448
horse, + Rhizobium/seed treatment 445
jack, nodulation 2078
jack, + Rhizobium 4581
kievitone, Aphanomyces euteiches 2000

Subject index

Bean (Contd),

kievitone, *Fusarium solani* 2000
 kievitone, *Rhizoctonia solani* 2000
 latlab, *Colletotrichum lindemuthianum*, seed treatment fungicide 2824
 latlab, *Nigrospora sphaerica*, pectolytic enzymes 7643
 latlab, nodulation 2078
 latlab, *Phakopsora pachyrhizi* 6201
 latlab, seed, *Aspergillus flavus* 1838
 lectins, + *Rhizobium*, nitrogen fixation 8899
 lima, golden mosaic, whitefly 5303
 lima, nodulation 2078
 lima, *Phakopsora pachyrhizi* 6201
 lima, *Phytophthora phaseoli* 260
 locust, gum, degradation, *Bacillus* 5191
 microbial disease 4288
 microbial diseases 1842
 mung, malformin assay 4811
 mung, mungbean yellow mosaic virus, whitefly 1844
 mung, *Protomyces patelii* 4302
 mung, + *Rhizobium*, nitrogen fixation, proteins 2383
 mung, + *Rhizobium*, nodulation, antifungal agent 3649
 mung, + *Rhizobium phaseoli*, nitrogen fixation 7274
 mung, seed, *Aspergillus flavus* 1838
 mung, yellow mosaic virus 2673
 mungbean yellow mosaic virus 4294
 nodulation 2078
Pamularia phaseoli 267C
 passionfruit woodiness virus 1831
 pea leaf roll virus 2667
Phaeoisariopsis griseola 6184
Phakopsora pachyrhizi 6201
 phasemy, bean common mosaic virus 1845
 phasemy, resistance, *Erysiphe polygoni* 2775
 phaseollin, *Botrytis cinerea* 3460
 potato virus 3 8716
 proteinase inhibitor, *Fusarium solani*/*Fusarium culmorum*/*Fusarium avenaceum*/*Botrytis cinerea* 2792
Pseudomonas morsprunorum, hypersensitive response 8602
Pseudomonas morsprunorum lipopolysaccharide 2519
Pseudomonas phaseolicola 1843 4290 7111
Pseudomonas phaseolicola, antibacterial agent 6376
Pseudomonas phaseolicola, antibacterial seed treatment 6379
Pseudomonas phaseolicola, hypersensitive response 8602
Pseudomonas phaseolicola phaseolotoxin 7258
Pseudomonas phaseolicola, phaseolotoxin/[2-serine]-phaseolotoxin 8586
Pseudomonas phaseolicola, streptomycin seed treatment 406
Pythium aphanidermatum, soil 2069
Pythium myriotylum, soil 2069
Pythium ultimum, soil 2069
 resistance, *Colletotrichum lagenarium* 7961
 resistance, *Colletotrichum lindemuthianum* 3547 7961
 resistance, *Fusarium solani* 8763 8764 9926
 resistance, *Pseudomonas phaseolicola* 1978
 resistance, *Pythium ultimum* 8765
 rice, nodulation 2078
 runner, *Phakopsora pachyrhizi* 6201
Sclerotinia sclerotiorum 8605
Sclerotinia sclerotiorum, pectolytic enzymes 4303
Sclerotinia sclerotiorum, thiourea/benzene phosphates 2014
 seed, *Aspergillus flavus* 1838
 seed, fungi 4301
 seed, fungi, fungicide 6355

Bean (Contd),

seen, fungi, seed treatment 1859
 snap, *Uromyces phaseoli*, fungicide 2798
 soybean mosaic virus, assay 7109
Stagonospora boltshauseri 2671
 sword, *Coleophoma empetri* 1008
 sword, nodulation 2078
 Tepary dry, *Sclerotinia sclerotiorum* 8605
 tobacco mosaic virus 1831
 tobacco mosaic virus, sodium dodecyl sulphate/triton X/Tween 80 5435
 tobacco necrosis virus 1831
 tobacco necrosis virus, *Ditylenchus dipsaci* 7110
 tobacco ringspot virus 1831
 tobacco streak virus 1831
 tomato bushy stunt virus 1831
 urd, *Cercospora* 2674
 urd, mungbean yellow mosaic virus, whitefly 1844
 urd, seed, *Aspergillus flavus* 1838
 urd, southern bean mosaic virus 7869
 urd, yellow mosaic virus 2673
Uromyces appendiculatus 4288
Uromyces appendiculatus, BAS 3170 F 1109
Uromyces appendiculatus, 2-iodobenzanilide 3580
Uromyces phaseoli, aminomethylenemalononitrile derivatives 3578
Uromyces phaseoli, antibiotic A-2315 623
Uromyces phaseoli, cold treatment 9949
Uromyces phaseoli, ethylene 9758
Uromyces phaseoli, phthalimide derivatives 2E15
Uromyces phaseoli, thioallophanate derivatives 391
 white clover mosaic virus 1831
 winged, *Erysiphe cichoracearum* 9772
 winged, + *Rhizobium*, nodulation/nitrogen fixation 4583
Xanthomonas phaseoli 4288 7111 8503
Xanthomonas phaseoli, antibacterial agent 4522
Bean common mosaic virus,
 bean 1842 6177
 phasemy bean 1845
Tetragonia expansa 6177
Bean curly dwarf mosaic virus,
 bean 6178
Bean golden yellow mosaic virus,
 bean 5302
Bean leaf beetle,
 bean pod mottle virus, soybean 4309
Bean mild mosaic virus,
 bean 6179
Bean pod mottle virus,
 soybean, bean leaf beetle 4309
Bean, soy,
 see Soybean
Bean yellow mosaic virus,
 9759
 alsike clover 3461
 bean 1831
 freesia, phenylmethylsulphonylfluoride 6267
 gladiolus 8695
 red clover 3462 9759
 soybean 9769
 white clover 9759
Bean yellow stipple virus,
 bean 6180
 bean, electron microscopy 7868
 cowpea, electron microscopy 7868
Beauveria bassiana,
 beauverolide H 6834
 beauverolide I 6834
 conidia, aluminium sulphate sedimentation 5158
Beauvericin,
 structure 5720

Subject index

Beauverolide H,

Beauveria bassiana 6834

Beauverolide I,

Beauveria bassiana 6834

Bedpan,

disinfection 2345

Bee,

Bacillus larvae, apiary, ethylene oxide
sterilisation 3738
honey, apiary sterilisation, ethylene oxide,
American foulbrood disease 2980

Beech,

American, mycorrhiza, Cenococcum graniforme
3599

bark, microbial degradation 2829
Cryptococcus fagi 2847
degradation, Coriolus versicolor 10022
European, bark, fungal degradation 4552
European, wood, Serpula lacrimans 7243
fungal degradation, ultraviolet/fluorescence
microscopy 5466
fungi/fungal diseases 1155
mycorrhiza 4528 7230
Nectria galligena, apple 7137
veneer, fungi 7244
wood degradation, forest soil 6401
wood veneer, fungi 4549

Beecomb,

Bacillus thuringiensis insecticide, Galleria
mellonella 3442

Beef,

+ soybean protein, patties, bacteria 7764
air-dried, microflora 172
air-dried, Salmonella typhimurium 173
antibacterial agent, rosemary spice
extractive 6126
Bacillus cereus haemolysin 7078
Bacillus cereus lethal toxin 7078
Bacillus cereus phospholipase C 7078
Bacillus subtilis 7014
bacteria 6077
bacteria, meat-stripping machine hygiene
8258
bactericide, hypochlorous acid 965
bacteriology 1749 4209
carcass, bacteria 6078
carcass, bacteria, moist-swab contact
method/secondary tissue removal technique
4211
carcass, bacteriology 170 171
carcass, chlorine wash 741
chopped, bacteriology/shelf-life 174
frozen ground, Clostridium perfringens,
tryptose-sulphite-cycloserine agar pour
plate/liquid sulphite medium 6079
frozen patties, bacteriology 9575
ground, bacteriology 175 176 7015 9575 9576
ground beef, carbon monoxide/carbon dioxide
8548
ground, microbial standards 7013
ground, microbiological testing 8502
ground, microbiology 1750
ground, microorganisms 7768
hot boning, hygiene/quality control 8509
hypochlorite sanitization 8549
Leuconostoc mesenteroides 7014
microorganisms, sanitizer 7767
minced, coliforms, antibiotics resistance
6028
minced, Escherichia coli, antibiotics
resistance 6028
minced, microorganisms 7769
packaged, acetic acid 9676
packaging film, shelf-life 7802
prepackaged, carbon monoxide, shelf-life
2613
preservation 9675
Pseudomonas putrefaciens 7014
rare roast, preservation 1792

Beef(Contd),

refrigerated/frozen, Clostridium perfringens
7766
refrigerated transport 8547
roast, Clostridium perfringens 908
sterile tissue, aseptic technique 2580
vacuum-packaged, bacteria 6127 7803
vacuum-packaged, microflora 1791 2614
vacuum-packaged, Yersinia enterocolitica
2612
vacuum packaging 1790

Beef-soybean loaf,

hospital chill food-service system,
microbiology 5232

Beer,

97 94 1715 4156 5171 7695 7696 8442 9503
9505 9506
acetoin, yeasts 3344
aroma composition 5166
aroma substances 5172
Aspergillus phoenicis endo-beta-glucanase
5946
B vitamins, microbial assay 4160
barley seed microflora 7697
Brew-N-zyme CGP13, filtration 5176
brewery waste 4162
brewing yeast immobilisation 8439
carbon dioxide 95
conditioning 6973
continuous glucose fermentation,
Saccharomyces carlsbergensis 6969
density, gas-bubble probe 1701
diacetyl, yeasts 3344
dimethyl sulphide 9508
dissolved oxygen 7694
electrochemical sterilisation 2545
fatty acids assay 9510
fermentation apparatus 894
fermentation tank, detergent/disinfectant
4901
fermenter 9504
gel chromatography 91
gushing, Aspergillus fumigatus/Aspergillus
amstelodami 59
gushing, malt microflora 5167
high gravity brewing 895
home-made 2546
hop oil emulsion, antibacterial
agent/antifungal agent 5168
hygiene 8444
large-scale fermenter 1700
non-alcoholic 102
Pediococcus, A.P.I. Lactobacillus system
8279
preservation 9507
quality control 8444 8445
rapid final fermentation, yeasts 4159
rice, Hansenula anomala/Mucor rouxianus 4163
saccharides, thin-layer chromatography 8441
Saccharomyces bayanus 7720
Saccharomyces carlsbergensis, nitrate 5174
Saccharomyces cerevisiae esterase 97
Saccharomyces uvarum, acetoin 96
vitamin B group assay 6016
volatile flavour compounds 9509
water 4161
wild yeast 98
wort, microbial enzymes 4157 4158 7698
wort, microbial protease 8443
wort, nitrite 4511
yeast 8440
yeast filtration characteristics 6015
yeast flocculation 5175
yeast killer-factor 896
yeast, membrane filter, tetracycline,
antibacterial agent 1702
yeast, sampling 8446

Beer worts,

Saccharomyces carlsbergensis, zinc, manganese
6972

Subject index

- Beeswax,**
Bacillus thuringiensis insecticide, *Galleria mellonella*, becomb 3442
- Beet,**
 see also Sugarbeet
 pathogenic fungi 4366
 pathogenic microorganism, beet bug 5388
 rec, *Streptomyces* 6243
 waste, treatment, *Aspergillus niger* 6700
 witches' broom-like disease 331
- Beet bug,**
 pathogenic microorganism, sugarbeet 5388
- Beet curly top virus,**
 beet leafhopper, sugarbeet, tomato 9891
 latex flocculation assay 10628
 sugarbeet 6297 8730
- Beet lacebug,**
 witches' broom-like disease, beet 331
- Beet leaf-curl virus,**
 sugarbeet 4364
- Beet mosaic virus,**
 antiviral agent, plant protection 3592
 sugarbeet 4420
- Beet western yellows virus,**
 lettuce, carbendazim 2819
 soybean 6197
- Beet yellows virus,**
 sugarbeet 4364 4420 9892
- Beetle,**
 bean leaf, bean pod mottle virus, soybean 4309
 bean yellow stipple virus, bean 6180
 Colorado potato, *Bacillus thuringiensis* insecticide 4150
 corn flea, *Erwinia stewartii*, corn, carbofuran 8723
 elm bark, *Ceratocystis ulmi*, elm, plant protection 4533
 Japanese, *Bacillus popilliae* insecticide 87
- Beetroot,**
Eotrytis cinerea phospholipase 3309
- Beggiatoa,**
 drip irrigation system 716
 rice rhizosphere 5473
 soil, enrichment culture 430
- Begonia,**
 extracts, antibacterial agent 10141
 Microsphaera begoniae 2729
 resistance, mildew 4456
 resistance, *Xanthomonas begoniae* 4456
- Begonia massoniana,**
 Microsphaera begoniae 2729
- Begonia rex,**
 Microsphaera begoniae 2729
 Oidium begoniae 304
- Begonia semperflorens,**
 Microsphaera begoniae 2729
- Beijerinckia,**
 rice rhizosphere, immunofluorescence, nitrogen fixation 5486
- Beijerinckia indica,**
 + gram, nodulation, nitrogen fixation 5495
- Belamcanda chinensis,**
 Iris fulva mosaic virus 7918
- Belladonna,**
 belladonna mottle virus 3501
- Belladonna mottle virus,**
 belladonna 3501
 Digitalis laevigata 5763
 Digitalis lutea 5363
 Nicotiana clevelandii x Nicotiana glutinosa 5763
 Pentstemon angustifolius 5363
 Pentstemon laevigatus 5363
 Physalis franchetii 5763
 Solanum luteum 5363
- Bellis,**
 Puccinia lagenophorae 5250
- Beltrania rhombica,**
 soil 3639
- Beltraniella portoricensis,**
 soil 3639
- Bemisia tabaci,**
 bean golden yellow mosaic virus, bean 5302
 chilli leaf curl virus, chilli, insecticide 7964
 golden mosaic, lima bean 5303
 plant disease viruses 4293
 tomato leaf curl virus, tomato, insecticide 1996
 tomato yellow leaf curl virus, tomato/*Datura stramonium* 8739
 virus disease, tomato 375
- Benadryl,**
 antibacterial agent 2938
- Benecke harveyi,**
 luciferase/NAD(P)H:FMN oxidoreductase, immobilization 2475
- Benecke hiperoptica,**
 enzyme, cephalixin 8136
- Benefin,**
 degradation, soil microorganisms 10080
- Benincasa hispida,**
 Erysiphe cichoracearum 1002
 Sphaerotheca fuliginea 1056
- Benlate,**
 see also Eenomyl
 Cercospora oryzae, rice 4426
 Diplodia natalensis, orange post-harvest decay 6318
 Entyloma oryzae, rice 4486
 Erysiphe betae, sugarbeet 7205
 Erysiphe cichoracearum, potato 4493
 fungicide, medicinal plant 3569
 Fusarium oxysporum 4464
 Fusarium oxysporum, wheat 2801
 grape post-harvest decay 4437
 Helminthosporium oryzae, rice 4486
 Helminthosporium sativum 8791
 mycoplasma-like organism, sandal spike, sandal 5464
 Penicillium digitatum, orange post-harvest decay 6318
 Phomopsis citri, orange post-harvest decay 5718
 Physoderma maydis, corn 8793
 Puccinia sorchi, corn 9963
 Pyricularia oryzae, rice 4486
 resistance, Colletotrichum coffeanum, coffee 2921
 Rhizoctonia oryzae, rice 4486
 Sclerotinia sclerotiorum, orange post-harvest decay 6318
 seed treatment, Colletotrichum lindemuthianum, lablab 2824
 seed treatment, Rhizoctonia solani, okra 9593
 seed treatment, Sclerotium rolfsii, lentil 4523
 Sphaerotheca fuliginea, cucurbit 4491
 Uromyces phaseoli, snap bean 2798
 Venturia pirina, pear 2726
 walnut, fungicide 5465
- Benlate 50W,**
 Fusarium oxysporum, ginger 2007
- Benodanil,**
 Cerotilum fici, fig 5421
 Colletotrichum, fig 5421
 fungicide, plant protection 5417
 Melampsora lini, flax 8801
- Benomyl,**
 see also Benlate
 Alternaria alternata, Kadota fig post-harvest decay 9914
 apple post-harvest decay 5396
 bean seed fungi 6355
 Botrytis allii, onion 6360
 Botrytis allii, onion post-harvest decay 4439
 Botrytis cinerea, grapevine 4515 5425

Subject index

Benomyl (Contd),

Botrytis cinerea, onion 6360
Botrytis cinerea, strawberry 7976
Botrytis cinerea, tomato 8804
Botrytis squamosa, onion 6360
Ceratocystis fimbriata, plane 5462
Ceratocystis paradoxa, pineapple 8822
Cercospora elaeidis, oil palm 8803 9968
Cercospora personata, *Cercospora*
arachidicola, groundnut peavine 8792
Colletotrichum gloeosporioides/Ascochyta
caricacae/Gloeosporium, papaya 2772
Colletotrichum lagenarium, bottlegourd 6357
Colletotrichum lagenarium, watermelon 6357
Cronartium fusiforme, slash pine 2041
Cytospora leucostoma, peach 2023
Diplocarpon rosae, rose 2806
Erysiphe betae/virus yellows, sugarbeet 7977
Erysiphe cichoracearum, potato 4493
estuarine water bacteria 4884
Eutypa armeniaca, apricot 7983
Fabraea maculata, hawthorn 10004
fruit blenheim, apricot 4518
fungi, strawberry post-harvest decay 8760
fungicide, plant protection 378 1101
fungicide, rice 400
Fusarium, asparagus 9945
Fusarium nivale, bentgrass 8795
Fusarium oxysporum 4484 10177
Fusarium oxysporum, carnation 2022
Fusarium oxysporum, ginger 2007
Fusarium oxysporum, sweetpotato 6373
Fusicladium effusum, pecan 4519
Geotrichum candidum, orange post-harvest
decay 2771
Gnomonia leptostyla, black walnut 10008
10016
Gnomonia platani, sycamore 10005
grape post-harvest decay 4437 5399
Guignardia aesculi, Ohio buckeye 10008
Leptosphaeria maculans, rape 3598
Lophodermium pinastri, pine 1151
Lophodermium pinastri, red pine 1145
Lophodermium pinastri, Scots pine 1145 8849
Microsphaera alni, lilac 10008
Monilia laxa, sour cherry 9829
Monilia fructicola, peach 399
Nectria galligena, apple post-harvest decay
5396
Neovossia horrida, rice 9961
oil adjuvant, plant protection 2791
peach post-harvest decay 348
Phoma exigua, potato 7947
Phyodermis maydis, corn 8794
Pithomyces chartarum, pasture 2004
Puccinia arachidis, peanut 8612
Pyricularia oryzae, rice 5419 7215
Pythium, creeping bentgrass 4517
resistance, *Botrytis cinerea*, plant
protection 4626
resistance, *Cercospora beticola*, sugarbeet
5389 9981
resistance, *Colletotrichum coffeanum*, coffee
2921
resistance, *Penicillium digitatum*, Citrus
post-harvest decay, fungicide 4441
resistance, *Penicillium italicum*, Citrus
post-harvest decay, fungicide 4441
resistance, phytopathogenic fungi 376
resistance, *Septoria passiflorae*,
passionfruit 7214
Rhizoctonia solani, cauliflower 1103
Rhizoctonia solani, cotton 4523
Sclerotinia borealis, bentgrass 8795
Sclerotinia sclerotiorum, cauliflower 306
Sclerotinia sclerotiorum, tomato 306
Sclerotium cepivorum, onion 7974
seed dressing, *Fusarium oxysporum*, pea 1012
seed dressing, *Helminthosporium solani*,
potato 7993

Benomyl (Contd),

seed dressing, *Ustilago tritici*, wheat 5440
seed treatment, bean 7990
seed treatment, fungi, bean 1859
seed treatment, fungi, soybean 1859
seed treatment, *Leptosphaeria maculans*, rape
3598
seed treatment, *Phoma lingam*, cabbage seed
8837
seed treatment, *Rhizoctonia solani*, potato
2033 4526
seed treatment, *Sclerotium cepivorum*, onion
7991
Septoria cornicola, red-osier dogwood 10008
Septoria lactucae, lettuce 6371
Septoria leucanthemi, Killian daisy 3570
Septoria tritici, wheat 1894 9964
snow mould fungi, turfgrass 4485
soil nitrification 8888
soil, nitrification, *Aspergillus carneus*
2874
soil, onion vesicular-arbuscular
mycorrhizal/rhizosphere fungi 7975
Sphaerotheca mors-uvae, blackcurrant 7905
Stagonospora boltshauseri, bean 2671
tolerance, *Botrytis cinerea* 6374
tolerance, *Botrytis cinerea*, *Leucospermum*
cordifolium 5277
tolerance, *Botrytis cinerea*, strawberry,
glycophene 8806
tolerance, *Monilia fructicola*, stone fruit
4427
tolerance, *Mycosphaerella fijiensis*, banana
6369
tolerance, *Sclerotinia fructicola*, peach
9754
tolerance, *Sclerotinia homoeocarpa*, turfgrass
8756
tolerance, *Tilletia caries*, wheat 7245
tolerance, *Tilletia foetida*, wheat 7225
tolerance, *Venturia inaequalis*, apple 3571
5431 9980
Typhula FW, bentgrass 8795
Ustilago nuda tritici, wheat 2006
Venturia inaequalis, apple, resistance 398
Verticillium cinerescens, carnation 2022
Verticillium dahliae, brinjal 4489
walnut, fungicide 5465
wheat leaf microflora 379
yam post-harvest decay 7948

Bentothiazole,

2-(thiocyanomethylthio)-, + benzimidazole
derivative, fungistat, seed treatment, plant
protection 5594

Bentazone,

soil microorganisms 2087

Bentgrass,

creeping, *Agrostis palustris* 5319
creeping, *Pythium*, benomyl 4517
Curvularia trifolii 1873
Sclerotinia borealis, fungicide 8795
Typhula FW, fungicide 8795

Bentonite,

+ phage MS-2, chlorine 6519
bacterial flocculation 10535
Sporosarcina ureae flocculation 10536

Benzalkonium bromide,

preservative, bactericide 2157

Benzalkonium chloride,

antibacterial agent 6738
phenylethanol/polysorbate 80, *Pseudomonas*
aeruginosa, electron microscopy 6496
preservative, antibacterial agent 6539
soft contact lens preservative 4700
variola virus 1242

Benzamide,

derivatives, antibacterial agent/antifungal
agent 4691
derivatives, fungicide, plant protection
4508

Subject index

- 2-Benzamido-5-nitro-thiazole,**
derivatives, fungistat 514
- Benzamido-5-nitrothiazole,**
derivatives, fungistat 2121
- Benzanilide,**
derivatives, bacteriostat 1217
- Benzazepine,**
derivatives, antibacterial agent 3686
piperazinoethyl-dihydroindole-, derivatives,
antibacterial agent/disinfectant 2948
- Benzazocin,**
derivatives, microbial transformation 2535
- Benzene,**
bis(propynyloxy)-, derivatives, antifungal
agent 8075
chlorodicyano-, organosulphur derivatives,
fungicide/bactericide 5595
derivatives, antibacterial agent/antifungal
agent 2131
mycophage 3182
Streptomyces preservation 5609
- Benzenesulphonate,**
alkyl, degradation, *Bacillus* 4167
alkyl, microbial degradation 4166
- Benzethonium,**
+ polymer, dental plaque 1536
- Benzhydrol,**
degradation, *Pseudomonas putida* 4172
- Benzidine,**
Schizophyllum commune phenoloxidase 1669
- Benzimidazole,**
2-amino-s-triazino[1,2-a]-, *Phytophthora*
infestans 6515
2-amino-s-triazino[1,2-a]-, *Puccinia*
trititica 6515
Botrytis cinerea, grapevine 4515 5425
derivative, +
2-(thiocyanomethylthio)-benzothiazole,
fungistat, seed treatment, plant protection
9994
derivatives, antifungal agent, seed
treatment, plant protection 7968
derivatives, antiviral agent 2967
derivatives, arenavirus 2122
derivatives, *Plasmodiophora brassicae*,
cabbage 2803 2804
Monilinia fructicola, peach 399
resistance, *Botrytis cinerea*, plant
protection 7204
resistance, *Cercosporidium personatum*, plant
protection 7204
resistance, *Mycosphaerella berkeleyi*, plant
protection 7204
resistance, *Oidium*, plant protection 7204
resistance, *Penicillium digitatum*, plant
protection 7204
resistance, *Penicillium italicum*, plant
protection 7204
resistance, phytopathogenic fungi 376
resistance, *Sclerotinia fructicola*, plant
protection 7204
resistance, *Septoria apii*, plant protection
7204
resistance, *Septoria apiicola*, plant
protection 7204
resistance, *Septoria passiflorae*, plant
protection 7204
resistance, *Sphaerotheca fuliginea*, plant
protection 7204
resistance, *Venturia inaequalis*, plant
protection 7204
resistance, *Venturia pirina*, plant protection
7204
Septoria leucanthemi, Killian daisy 3570
thiadiazolo-, derivatives,
fungicide/fungistat 8081
tolerance, *Monilinia fructicola*, stone fruit
4627
tolerance, *Sclerotinia fructicola*, peach
8798
- Benzimidazole(Contd),**
tolerance, *Venturia inaequalis*, apple 3571
7213 9980
triazino-, derivatives, fungicide, plant
protection 3588
Venturia inaequalis, apple, resistance 398
- bis-Benzimidazole,**
derivatives, Junin virus 7341
- Benzimidazole-1-carboximide acid ester,**
fungicide, plant protection 1116
- Benzimidazole-2-carbamate,**
derivatives, antifungal agent 2817
derivatives, fungicide, plant protection 397
2C21 2817
- Benzimidazole-carbamic acid,**
derivatives, fungicide, plant protection
2816
- Benzimidazole-methyl-carbamate,**
fungicide, plant protection 3587
- Benzimidazolecarbamate,**
dialkyl(optionally substituted
hydrocarbylenebiscarbamoyl)bis-,
derivatives, fungicide, plant protection
4514
- Benzisothiazolin-3-one,**
derivatives, bacteriostat/fungistat 534
- Benzisothiazolinone,**
+ quaternary ammonium compound,
bactericide/fungicide 4687
- Benzo-1,2,4-triazine,**
derivatives, antibacterial agent 1225
- Benzo(a)anthracene,**
microbial degradation 1708
- Benzo(a)pyrene,**
microbial degradation 1708
- Benzoate,**
Byssoschlamys nivea spores, food 3423
colostrum preservation 9649
food preservation 7794
Pyssoschlamys nivea 4252
Staphylococcus aureus, intermediate moisture
food 1782
- Benzoate-4-hydroxylase,**
Pseudomonas 4068
- Benzodiazepine,**
derivatives, antibacterial agent 5560
- 1,5-Benzodiazepine,**
derivative, tizezonium, antibacterial agent
9008
- Benzoic acid,**
assay, *Rhodotorula rubra*/*Cryptococcus albidus*
8530
bactericide, dialysis fluid 3142
catechol, *Corynebacterium glutamicum* 5146
5147
chromatography gas internal standard,
microbial products 7545
colostrum preservation 9649
degradation, soil *Pseudomonas* 6019
fungicide, animal feed/plant protection 2794
- Benzoisothiazolinone,**
+ nitrofuryl/nitrothienyl, derivatives,
antibacterial agent 10159
- Benzo[j]fluoranthene-quinone,**
Bulgaria inquinans 5130
- Benzopyrene,**
marine bacteria 479
- Benzoquinone,**
2,5-dihydroxy-1,4-, derivatives, antifungal
agent 8082
- Benzothiazole,**
derivatives, fungicide, plant protection
7216
2-imino-2H-s-triazino[2,1-b]-, *Botrytis*
cinerea 6515
- Benzothioipyrane,**
derivatives, antibacterial agent 3778
- Benzotriazine-1,4-di-N-oxide,**
3-amino-1,2,4-, antibacterial agent, feed
animal 10158

Subject index

- Benzotriazine-1,4-dioxide,**
derivatives, antibacterial agent 2091 2118
- Benzyl dimethyl(1-hydroxy-p-menth-8-en-2-yl)
ammonium chloride,**
fungicide, plant protection 2015
- Benzylacrylonitrile,**
derivatives, antibacterial agent 500
- Benzylamine,**
derivatives, *Mycobacterium tuberculosis* 2929
dialkox-, antiviral agent 2125
- N-Benzylidenediphenylamine-2-carboxylic acid
hydrazide,**
derivatives, antibacterial agent 10165
- 4-Benzylloxy-2(1H)-pyridone,**
antibacterial agent/antifungal agent 9009
- Benzylpenicillin,**
see Penicillin G
- Benzylpyrimidine,**
derivatives, antibacterial agent 8978
- beta-trans-Bergamotene,**
Aspergillus fumigatus, fumagillin 7688
- Berkleasium conglobatum,**
jamun tree 4538
- Bermuda grass,**
+ *Spirillum*, nitrogen fixation 5501
Cynodon mosaic virus 1874
- Berninamycin A,**
structure 5721 8176
- Berninamycinic acid,**
sulfomycin I 10408
- Bernisia tabaci,**
mungbean yellow mosaic virus 1844
- Berthelot colour reaction,**
urea hydrolysis, yeasts 6795
- Beryllium,**
+ morphocycline, fluorimetry 6616
- Beta,**
Erysiphe polygoni 9894
witches' broom-like disease 331
- Beta atriplicifolia,**
Erysiphe polygoni 9894
- Beta lomatogona,**
Erysiphe polygoni 9894
- Beta macrocarpa,**
Erysiphe polygoni 9894
- Beta macrorhiza,**
Erysiphe polygoni 9894
- Beta maritima,**
Erysiphe polygoni 9894
- Beta patellaris,**
Erysiphe polygoni 9894
- Beta patula,**
Erysiphe polygoni 9894
- Beta trigyna,**
Erysiphe polygoni 9894
- Beta virus 3,**
sugarbeet 4364
- Beta virus 4,**
sugarbeet 4364
- Beta vulgaris,**
see also Sugarbeet
Alternaria, fungicide seed treatment 2034
beet curly top virus 6297 8730
beet curly top virus, beet leafhopper 9891
beet curly top virus, latex flocculation
assay 10628
beet leaf-curl virus 4364
beet mosaic virus 4420
beet yellows virus 4364 4420 9892
Botrytis cinerea phospholipase 3309
Cercospora beticola 1953 4364 7174 7175
Cercospora beticola, benomyl resistance 5389
5981
Cercospora beticola, topsin M 8823
curly top 8731
Erwinia 9893
Erysiphe betae 5390
Erysiphe betae, fungicide 7205
Erysiphe betae/virus yellows, fungicide 7977
Erysiphe polygoni 8731 9894
- Beta vulgaris(Contd),**
Erysiphe polygoni, sulphur fungicide 1108
Fusarium, fungicide seed treatment 2034
heart-rot 4364
iodoacetone bacteriostat 2616
latent rosette disease, rickettsia-like
organism 7173
pathogenic fungi 4366
pathogenic microorganism, beet bug 5388
Peronospora farinosa 4367
Phoma betae, fungicide seed treatment 8839
Polymyxa betae 5391
post-harvest decay, *Botrytis cinerea*,
Penicillium claviforme 3544
post-harvest decay, *Phoma betae*, *Penicillium*
claviforme 3544
powdery mildew 8732
Pseudomonas phaseolicola toxin 3449
Pythium aphanidermatum, ceresan seed
treatment 2034
Pythium debaryanum, biological control,
Pythium oliganthum 9991
Pythium heterothallicum 6298
Pythium sylvaticum 6298
Pythium ultimum, biological control, *Pythium*
oliganthum 9991
resistance, *Cercospora beticola* 2786
resistance, *Rhizoctonia solani* 1990
Rhizoctonia bataticola 1084
Rhizoctonia bataticola, fungicide seed
treatment 2034
Rhizoctonia, biological control, *Penicillium*
4499
Rhizoctonia solani 1954 9895
Rhizoctonia solani, cycloate 7969
Rhizoctonia solani, pentachloronitrobenzene
seed treatment 2034
Rhizopus arrhizus 8733
rizomania 4421
Sclerotium rolfsii, BAS 3050 F 1110
Sclerotium rolfsii, pentachloronitrobenzene
seed treatment 2034
seed, *Fusarium oxysporum*/*Phoma betae* 332
Streptomyces 6253
sugarbeet virus yellows, plant protection
7201
sugarbeet yellows virus, insecticide 365
surface disinfection, iodophors 744
witches' broom-like disease 331
- Betadine,**
bactericide 6737
endoscope disinfection 8251
- Betaine aldehyde dehydrogenase,**
Pseudomonas aeruginosa 3258
- Betamethasone dipropionate,**
+ salicylic acid, antibacterial
agent/antifungal agent 10190
- Betel,**
Alternaria infectoria 1912
Phytophthora, fungicide 8677
Phytophthora parasitica 309
Phytophthora parasitica, antibiotics 9970
Rhizoctonia bataticola 8678
Trichothecium roseum 1912
- Betel nut palm,**
Colletotrichum gloeosporioides 8679
Phyllosticta hesperidearum 1836
- Betula,**
degradation, *Coriolus versicolor* 10022
- Betula alleghaniensis,**
fungal decay 6393
- Betula pendula,**
Piptoporus betulinus, scanning electron
microscopy 3616
- Betula verrucosa,**
mycorrhiza, *Amanita muscaria* 5444
- Betz Slimicide B-7P,**
fresh-aquatic water microorganisms 10481

Subject index

Beverage,

- alcoholic, aroma composition 5166
- alcoholic, ethanol, gas chromatography 102
- alcoholic, preservation 9507
- carbonated, yeasts 5239
- fermented milk, *Propionibacterium shermanii*, vitamin B12 + folic acid enrichment 9544
- fermented, whey 892
- membrane filtration sterilisation 10213
- packaging/sterile filling 2160
- pasteurisation 4250
- preservation, natamycin 6130
- proportioning pumps, yeasts 4225
- single-use containers 7795
- soft, protein hydrolysate, bacterial protease 5971
- spoilage/preservation 3412
- sterilisation 2604
- sweetened aerated, preservation 4251

Beverage container,

- sterilisation, laser beam-induced plasma 1279

Beverage industry,

- antibacterial agent/antifungal agent, alkylphenols 531
- disinfection 1529
- hygiene 2353

Bhendi,

- Alternaria/Fleospora infectoria* 1909

Bichlobenil,

- soil microorganisms, microbial assay 8918

Bicyclomycin,

- 9501

Bidens biternata,

- Sphaerotheca fuliginea* 1002

Bidens mottle virus,

- blue lupin 4392

Bifidobacterium,

- 4996
- 12-dehydroxylase, 12-dihydrosteroids 867
- L-isoleucine 8318
- thin-layer chromatography 9262
- urease assay 8271

Bifidobacterium adolescentis,

- ruminant feed, milk 944

Bifidobacterium bifidum,

- culture medium, titanium citrate 4934
- galactokinase 5943

Bifidobacterium ruminale,

- L-isoleucine 8318

Big bud,

- mycoplasma-like organism, tomato, plant protection 5392

Biguanide,

- derivatives, antiviral agent 1253 6520
- polymeric, antifungal agent/antibacterial agent/antiviral agent, plant protection 405

bis-Biguanide,

- oral hygiene, dental plaque/dental caries/dental calculus 9244

bis-Biguanido hexane compound,

- antibacterial agent, oral hygiene, dental plaque 8261

3,14-Bihispidinyl,

- Phellinus pomaceus* 8430

Bikaverin,

- Fusarium oxysporum* 5129

Bile,

- pig, *Salmonella* 5814

Bile acid,

- deconjugation, *Lactobacillus* 4169
- Staphylococcus* 7316

Bile disc test,

- Bacteroides fragilis* 10553

Bile-esculin agar,

- Enterobacteriaceae* 9272

Bile salt hydrolase,

- Bacteroides fragilis* 3260

Bile system,

- antibiotics 2995

Biochanin A,

- Helminthosporium carbonum*, chickpea 6348
- red clover, *Sclerotinia sclerotiorum/Botrytis cinerea* 1846

Biochemical fuel cell,

- Saccharomyces cerevisiae* 3353

Biochemical oxygen demand,

- sewage treatment 2291 4856
- sewage treatment, activated sludge 2297

Biocide,

- crude oil degradation 10110

Biodegradation,

- see Degradation

Bioengineering,

- 4023 4914

Biofiltration,

- wastewater treatment 3098

Biogas,

- cattle dung fermentation 9190

Biological control,

- Actinomycetales*, *Phytophthora* 5481
- Actinomycetales*, *Pythium* 5481
- Agrobacterium radiobacter*, *Agrobacterium tumefaciens*, peach 2820
- Agrobacterium radiobacter*, *Agrobacterium tumefaciens*, *Prunus* 5438
- Agrobacterium tumefaciens*, almond 7219
- Agrobacterium tumefaciens*, apricot 7219
- Agrobacterium tumefaciens*, peach 7219
- Agrobacterium tumefaciens*, plum 7219
- Agrobacterium tumefaciens*, *Prunus* 401
- agrocins 84, *Agrobacterium radiobacter*, crown gall 5991
- Alternaria*, *Alternaria alternata*, tobacco 5416
- Aspergillus versicolor versicolor*, *Colletotrichum gloeosporioides*, jute 8880
- Bacillus cereus*, *Alternaria alternata*, tobacco 9955
- Bacillus* seed treatment, *Tilletia caries/Tilletia foetida*, wheat 4525
- Bacillus subtilis*, *Rhizoctonia solani*, cotton 372
- Bacillus subtilis* seed treatment, *Fusarium solani*, Austrian pine 10001
- Bipolaris maydis*, corn 1998
- Claviceps purpurea*, barley 4323
- Colletotrichum*, *Colletotrichum lindemuthianum*, bean 1999
- Colletotrichum lagenarium*, cucumber 7954
- Darluka filum*, *Cronartium fusiforme*, oak 2049
- Drechslera sorokiniana*, oat 7202
- Drechslera sorokiniana*, wheat 7202
- Endothia parasitica*, chestnut 3617
- Erwinia amylovora*, pear 5439
- Fomes annosus*, wood 6405
- fruit fly, *Fomitopsis annosa*, pine 6390
- fungal mycorrhizae, *Fomes annosus* 1123
- fungal mycorrhizae, *Phytophthora cinnamomi* 1123
- Fusarium culmorum/Drechslera sorokiniana/Rhizoctonia solani*, oat 1099
- Fusarium culmorum/Drechslera sorokiniana/Rhizoctonia solani*, wheat 1099
- Fusarium culmorum*, oat 7202
- Fusarium culmorum*, wheat 7202 8653
- Fusarium oxysporum*, pea 5412
- gram phyllosphere fungi, *Uromyces ciceris-arietini*, gram 3465
- granulosis virus insecticide, diamondback moth 9488
- Helminthosporium rostratum*, wheat seed 4524
- Hendersonia acicola*, *Lophoderma sulcigena*, Corsican pine 2842
- insects 7592
- microbial diseases, forest tree 5445
- microbial insecticides 9486 9487 10645
- mycorrhizae, *Phytophthora cinnamomi*, pine 8850

Subject index

Biological control(Contd),

Penicillium patulum, Phytophthora cryptogea, squash 372
 Penicillium patulum, Rhizoctonia solani, cotton 372
 Penicillium, Rhizoctonia, sugarbeet 4499
 Penicillium waksmani, Pacillus larvae, honeycomb 1212
 Peniophora gigantea, Fomes annosus, pine 2838
 Phialophora radiculicola, Gaeumannomyces graminis tritici, Gramineae 370
 Phialophora radiculicola, Gaeumannomyces graminis tritici, wheat 370
 plant disease fungi, soil rhizosphere 3633
 plant protection 4999
 Pseudomonas tolaasii, mushroom 2025
 Pythium oligandrum, Pythium debaryanum/Pythium ultimum, sugarbeet 9991
 Rhizoctonia solani, oat 7202
 Rhizoctonia solani, wheat 7202
 Rhizopus oryzae, Syncephalis californica, soil 8885
 soil fungi 6419 6420
 soil, Gaeumannomyces graminis tritici, wheat 369
 soil microflora, Gaeumannomyces graminis 368
 soil microflora, wheat root rot 371
 Sporobolomyces roseus, Cochliobolus sativus, wheat 6352
 Stereum sanguinolentum, wood 6405
 Thielaviopsis basicola, soybean 363
 tobacco mosaic virus, tomato 7939
 Trichoderma viride, Armillaria mellea, soil/Citrus 1997
 Trichoderma viride, barley flour inoculant 788
 Trichoderma viride, Sclerotium rolfsii, cotton, S-ethyl dipropylthiocarbamate 6354
 Trichoderma viride, Sclerotium rolfsii, white clover, S-ethyl dipropylthiocarbamate 6354
 Trichoderma viride, Verticillium dahliae, mushroom 3564
 water hyacinth, Cercospora rodmannii 8745
 wheat, biological control, soil 369
 Xanthomonas malvacearum, cotton 7913
 Xanthomonas oryzae, rice 7220

Biological film reactor,

3152

Biological fluid,

bacterial endotoxin 992

Biological oxygen demand,

activated sludge 3844
 oxidation pond wastewater treatment 3869
 polluted water 2333
 stabilisation pond wastewater treatment 3868
 wastewater, electrolytic respirometer 6684

Biomass,

Absidia corymbifera 1622
 Aeromonas, hydrocarbon 7291
 Arthrobacter simplex 2457
 Arthrobacter simplex, culture medium 22
 Aspergillus, ethanol 2428
 Aspergillus, methanol 2428
 Azotomonas, hydrocarbon 7291
 bacteria, sea water 7535
 Botrytis, ethanol 2428
 Botrytis, methanol 2428
 Brevibacterium, hydrocarbon 7291
 butanol 9323
 Candida boidinii, methanol 6825
 Candida, butanol 9323
 Candida, RNA 8309
 Candida scottii, peat + wood neutralisates 2433
 Candida tropicalis 10528
 Candida tropicalis, coal extracts 8310
 Candida utilis 6826
 Candida utilis, cellulose waste hydrolysate 6704

Biomass(Contd),

Candida utilis, ethanol 4055
 Candida utilis, ethanol culture 1 804 805
 Candida utilis, ethanol culture medium 8294
 Candida utilis, ethanol, multi-stage tower fermentor 6844
 Candida utilis, fermentation industry slops 5-4
 Candida utilis, nodal fruit 5903 5904
 Endomycopsis fitulicola 6826
 fermentation, fuel 9319
 food yeast, distillery slops 6032
 Fusarium, ethanol 2428
 Fusarium, methanol 2428
 Hydrogenomonas, animal feed 8514
 Klebsiella, methanol 9321
 Methylobionas methanolicus 5884
 Methylobionas methanolicus, formaldehyde 5900
 Methylobionas methanolicus, formate 5900
 Methylobionas methanolicus, methanol 5900
 Methylobionas methanolicus, methylamine 5900
 microbial 802
 microbial, animal feed 1619 8516
 microbial, ATP, photometer 1549
 microbial, fermentation, computer 6011
 microbial, rumen, ATP 6782
 microbial, sediment, muramic acid assay 7506
 microbial, zero gravity 4031
 microorganisms 4917
 mixed microbial culture 3266
 Mycobacterium, hydrocarbon 7291
 Penicillium digitatum 2429
 Penicillium, ethanol 2428
 Penicillium, methanol 2428
 Protaminobacter, hydrocarbon 7291
 protein, potato starch waste medium 2430
 protein, yeasts, soybean whey culture medium 6828
 Pseudomonas AM-1, methanol 9321
 Pseudomonas, formaldehyde 5900
 Pseudomonas, formate 5900
 Pseudomonas, methanol 5900
 Pseudomonas, methylamine 5900
 Pseudomonas methylotrophica, formaldehyde 5900
 Pseudomonas methylotrophica, formate 5900
 Pseudomonas methylotrophica, methanol 5900
 Pseudomonas methylotrophica, methylamine 5900
 Pseudomonas rosea, formaldehyde 5900
 Pseudomonas rosea, formate 5900
 Pseudomonas rosea, methanol 5900
 Pseudomonas rosea, methylamine 5900
 Rhizobium japonicum, tower air lift fermenter 5851
 Rhizopus oligosporus 1622
 Rhizopus rhizopodiformis 1622
 Rhodotorula glutinis, wastewater, animal feed 4228
 Saccharomyces cerevisiae 4936 5850
 Saccharomyces cerevisiae, carbon dioxide 2419
 Saccharomyces cerevisiae, cellulose waste hydrolysate 6704
 Saccharomyces cerevisiae, fermentation, computer 6010
 Torula, cellulose waste hydrolysate 6704
 Torulopsis utilis, cellulose waste 5862
 Trametes versicolor, whey 1621
 Trichoderma, ethanol 2428
 Trichoderma, methanol 2428
 Tyromyces albellus, whey 1621
 yeasts, peat hydrolysate medium 2434
 yeasts, sulphite waste liquor + ethanol 9322

Bioreactor,

continuous, tapered fluidized bed 3153

Biotin,

beer/yeast, assay, Lactobacillus plantarum 4160

Subject index

- Biotin(Contd).**
microbiological assay, beer, yeast 6016
Micrococcus, alkane 10098
sludge activated, wastewater treatment 3866
- Biotyping,**
Propionibacterium acnes/Propionibacterium
avidum/Corynebacterium parvum 3189
- Biphenyl,**
degradation, marine bacteria 480
polychlorinated, estuarine microorganisms
724
- Bipolaris,**
soil 3632
sterigmatocystin 7808
- Bipolaris halodes,**
coconut plam, Bordeaux mixture/copper
oxychloride 3506
- Bipolaris maydis,**
see also Helminthosporium maydis
corn, biological control 1998
- Bipolaris sorokiniana,**
barley 4327
sterigmatocystin 588
wheat 4350 6233
- Bipolaris sorokinianum,**
wheat 3488
- Birch,**
Piptoporus betulinus, scanning electron
microscopy 3616
white, mycorrhiza, Amanita muscaria 5444
yellow, fungal decay 6393
- Birdsfoot trefoil,**
Myrothecium verrucaria 6189
- Birlane,**
nitrogen fixation, Rhizobium + broad bean
6443
- Bismuth sulphite agar,**
Salmonella selective medium 10586
- Bispora effusa,**
fungicide 2053
- Bisulphite reductase II,**
Desulfovibrio vulgaris 1642
- Sitiosamine,**
5-deoxy-, Bacillus circulans 1408
- Bitoxibacillin,**
Bacillus thuringiensis insecticide, Colorado
potato beetle 4150
- Bitter rot,**
Gloeosporium, apple 4292
- Bittergourd,**
Sclerotium rolfsii 7143
- Bitumen,**
fungi 5507
- Bituminous concrete,**
fungi 5507
- Biuret,**
urea nitrogen, soil transformation 10056
- BL-20803,**
interferon/antiviral agent 5581
- BL-3849A,**
antiviral agent, interferon 2124
- BL-P1654,**
+ gentamicin, Pseudomonas aeruginosa 6556
Enterobacteriaceae 6557
Pseudomonas aeruginosa 6556
- Black leg,**
Leptosphaeria maculans, rapeseed 8722
- Black loose smut,**
Ustilago nigra, barley 5318
- Black mould rot,**
Aspergillus niger, pomegranate post-harvest
decay 8756
- Black pod,**
Rhizoctonia palmivora, cacao 2731 3506 7144
- Black pod disease,**
Phytophthora palmivora, cacao, resistance
359
- Black root,**
Rhizoctonia, sugarbeet, biological control,
Penicillium 4499
- Black root rot,**
Thielaviopsis basicola, cotton, mycorrhiza
8690
Thielaviopsis basicola, soybean, biological
control 363
tobacco, resistance 4477
Xylaria mali, apple, plant protection 7136
- Black rot,**
Calonectria crotalariae, peanut, aerial
infrared imagery 6191
Cylindrocladium crotalariae, peanut,
resistance 8766
Guignardia bidwellii, grape, fungicide 8802
Xanthomonas campestris, Brussels sprout, seed
treatment 8830
- Black scurf,**
Rhizoctonia solani, potato, seed treatment
fungicide 2032
- Black shank,**
Phytophthora nicotianae, tobacco, resistance
9945
Phytophthora nicotianae, tobacco, soil
fumigant 9971
Phytophthora parasitica, tobacco, fungicide
9972
- Black Sigatoka,**
Mycosphaerella fijiensis, banana 5350
Mycosphaerella fijiensis, banana, benomyl
tolerance 6369
- Black spot,**
Alternaria kikuchiana, AK-toxin, Japanese
pear 3498
Diplocarpon rosae, rose 1080
Eloosporium salicis, willow 10018
Guignardia citricarpa, Citrus post-harvest
decay 7188
Protomyces patellii, mung bean 4302
- Black stain root,**
Verticicladiella wagnerii, pinyon pine
10005
- Black stain root disease,**
Verticicladiella wagnerii, pinyon pine 3613
- Black stem,**
Phoma medicaginis, alfalfa 8601
- Blackberry,**
Microsphaera rubi 4372
thornless, Erwinia amylovora 8680
- Blackcurrant,**
blackcurrant reversion virus 3502
blackcurrant reversion virus, gall mite 3503
resistance, Sphaerotheca mors-uvae 4457 4458
Sphaerotheca mors-uvae 8681
Sphaerotheca mors-uvae, fungicide 7905
- Blackcurrant reversion virus,**
blackcurrant 3502
blackcurrant, gall mite 3503
- Blackgrass,**
Claviceps purpurea 288
- Blackleg,**
Erwinia carotovora, potato 7163 8717
Leptosphaeria maculans, rape 6292
Leptosphaeria maculans, rape, benomyl 3598
Phoma lingam, cabbage seed, seed treatment
fungicide 8837
Pythium splendens, geranium 8694
- Blackpod,**
Phytophthora palmivora, cacao, copper
compound 6362
Phytophthora palmivora, cacao, soil 10055
- Blackpoint,**
Helminthosporium sativum/Alternaria tenuis,
wheat 1039
- Blackscurf,**
Rhizoctonia solani, potato, benomyl seed
treatment 4526
- Blackspot,**
Alternaria brassicae, rapeseed 4412
Alternaria brassicae, rapeseed, resistance
4412
Diplocarpon rosae, rose, fungicide 2806

Subject index

Blackspot (Contd),

rose, resistance 4473

Blainvillea platyclate,

Oidium 2665

Blast,

Helminthosporium oryzae, rice, antifungal agent 283

Pyricularia oryzae, rice, diphenylamine derivatives 392

Pseudomonas syringae, pear, antibacterial agent 8828

Pyricularia oryzae, Panicum repens 7127

Pyricularia oryzae, rice 1035 1881 2704 2705 2706 4341 4342 4343 8646 9799

Pyricularia oryzae, rice, 2-aminopyrimidine derivatives 395

Pyricularia oryzae, rice, amipurimycin 9124 9125

Pyricularia oryzae, rice, benomyl 7215

Pyricularia oryzae, rice, blasticidin S tolerance 7218

Pyricularia oryzae, rice,

2,2-dichloro-3,3-dimethylcyclopropane carboxylic acid, phytoalexin 8785

Pyricularia oryzae, rice, diphenylpyrazolium derivatives 1114

Pyricularia oryzae, rice, fungicide 4486 4487 5419

Pyricularia oryzae, rice, kasugamycin/blasticidin S resistance 8966

Pyricularia oryzae, rice, Magnaporthe salvinii 5331

Pyricularia oryzae, rice, plant protection 1029

Pyricularia oryzae, rice, pyrazolium derivatives 2812 3581 4511

Pyricularia oryzae, rice, resistance 2785 4341 4342

Pyricularia oryzae, rice, 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589

Pyricularia oryzae, rice, thiophosphoric acid ester amide derivatives 1117

Pyricularia oryzae, rice, thioureidobenzene phosphates 2014

Blasticidin S,

9501

phytopathogenic bacteria/fungi, plant protection 7222

Pyricularia oryzae, resistance 8966

Streptomyces griseochromogenes, pentopyranic acid 1407

tolerance, Pyricularia oryzae, rice 7218

Blastin,

Ascochyta rabiei, gram 2799

Blastmycin,

deisovaleryl-, Streptomyces, antifungal agent 5722

Blastocladiella emersonii,

preservation 4709

Blastomyces dermatitidis,

antibiotic A30641 2241

Grocott stain, tissue section 2391

Blatta orientalis,

Pestalotia psidii, guava post-harvest decay 9915

Bleeding canker,

Phytophthora, horse chestnut 2848

Bleomycin,

3-(methylmercapto)propylamino-, Streptomyces verticillus, antitumour 1690

antibiotic/Mycobacterium smegmatis 1690

antiviral agent 1322

carbon-13 nuclear magnetic resonance

spectroscopy 10355

epi-, antibacterial agent 5723

onion meristem 5123

phleomycin, Mycobacterium smegmatis 629

reversed-phase high-performance liquid

chromatography 3063

Bleomycin (Contd),

structure 4127 9128

Bleomycin A2,

+ metals 6627

demethyl-, Streptomyces verticillus, antitumour antibiotic/Mycobacterium smegmatis 1690

Bleomycin B2,

+ metals 6627

Bleomycins,

+ metals 6627

Blight,

Alternaria, tomato, oxadiazolidine-3,5-dione derivatives 1115

Alternaria trititica, wheat 1889

Alternaria, wheat, fungicide 2005

Ascochyta rabiei, gram 2675

Ascochyta rabiei, gram, fungicide 2799

Aspergillus niger, peanut, fungicide 9959

Cercospora hibisci, okra 1069

Diolodia pinea, Austrian pine, Bordeaux mixture 8001

Diplodia pinea, ponderosa pine 8001

Diplodia pinea, Scots pine 8001

Drechslera oryzae, wild rice 4344

Drechslera sorokiniana, wild rice 4344

Helminthosporium oryzae, rice 281

Helminthosporium spiciferum, wheat 1038

Helminthosporium spiciferum, wheat, culture medium 1042

Helminthosporium victoriae, victorin, oat 7126

Macrophomina phaseolina, jute 316

Ovulinia azaleae, azalea, Bay Med 6447 8819

Phoma glomerata, mango 9837

Phytophthora, bean 1842

Phytophthora infestans, potato 4364

Phytophthora infestans, potato,

aphicide/fungicide 2008

Phytophthora infestans, tomato 4291

Phytophthora infestans, tomato, diphenylamine derivatives 392

Phytophthora infestans, tomato,

imidazo-pyrimidine derivatives 4512

Phytophthora infestans, tomato,

oxadiazolidine-3,5-dione derivatives 1115

Phytophthora nicotianae, passionfruit 8712

Pseudomonas syringae, soybean 6196

Pythium aphanidermatum, bean 2069

Pythium, creeping bentgrass, benomyl 4517

Pythium myriotylum, bean 2069

Rhizoctonia solani, flax 8693

Rhizoctonia solani, flax, resistance 8693

rice, Helminthosporium oryzae 282

Uncinula salicis, willow 10018

Xanthomonas juglandis, walnut, antibacterial agent 2050

Xanthomonas malvacearum, cotton 6261 7913

Xanthomonas malvacearum, cotton,

antibacterial agent 3595

Xanthomonas malvacearum, cotton, resistance

4463 4464 7913

Xanthomonas mirabilis, Mirabilis jalapa 320

Xanthomonas oryzae, Oryza sativa 279

Xanthomonas oryzae, rice 1031

Xanthomonas oryzae, rice, biological control 7220

Xanthomonas oryzae, rice, Leptocoris acuta 1030

Xanthomonas oryzae, rice, resistance 1984 6335 9932

Xanthomonas oryzae, rice, triazine-dione derivatives 1119

Xanthomonas phaseoli, bean 8503

Xanthomonas tardicrescens, iris 8700

Xanthomonas vignicola, cowpea 9765

Blister rust,

Cronartium comandrae, Austrian pine 4544

Cronartium comandrae, jack pine 4544

Cronartium comandrae, lodgepole pine 4544

Subject index

- Blister rust(Contd),**
Cronartium comandrae, pine 8847
Cronartium comandrae, ponderosa pine 4544
Cronartium comandrae, Scots pine 4544
- Blitane,**
Curvularia lunata, cluster bean 2002
- Blitox,**
Alternaria cucumerina, squash 342
Alternaria, wheat 2205
Geotrichum candidum, orange post-harvest decay 771
Phytophthora nicotianae, tomato 4494
seed treatment, safflower seed mycoflora 878
- Blitox 50,**
Alternaria cepulicola, onion 4492
Fusarium oxysporum 4454
Fusarium oxysporum, wheat 2801
Macrophoma phaseolina, papaya 2802
- Bloater control,**
cucumber brine fermentation, carbon dioxide purino 4249
- Blood,**
bacterial endotoxin 992
preservation, ozone 9018
sterilisation 1284
triclocarban/triclosan, assay, continuous distillation extraction apparatus 7691
- Blood agar,**
gentamicin, *Streptococcus pneumoniae* isolation medium 10603 10604
Mycobacterium avium complex-serotype 6 3980
sheep, + sulphemethoxazole-trimethoprim, *Streptococcus* group A/*Streptococcus* group B selective medium 10595
- Blood agar medium,**
anaerobic bacteria 3956
Streptococcus group A, bacitracin 4971
- Blood collection tube,**
non-sterile, false-positive blood culture, *Serratia marcescens* 4966
- Blood culture,**
antibiotic sensitivity testing 551
bacteraemia 1555
bacteria, API-20E system 5835
bacterial L-form 4679
Candida albicans 2392
fungi 1592
Gram stain 4930
lysis-filtration 10524
microorganisms 768
Pseudomonas aeruginosa 2394
Serratia marcescens, non-sterile blood collection tube 4966
single-bottle system 10522
- Blood culture medium,**
anaerobic bacteria 10550
bacterial, microcalorimetry 10523
- Blossom blight,**
Botrytis, *Endrobium* 978
- Blossom end rot,**
Pythium butleri, bottlegourd 4374
- Blossom wilt,**
Sclerotinia laxa, cherry 4292
- Blotch,**
Pseudomonas tolaasii, mushroom, biological control 2025
- Blue crab,**
Vibrio parahaemolyticus, condiments 9568
- Blue dextran-Sepharose,**
affinity chromatography, *Escherichia coli* isoleucyl-tRNA synthetase 5074
- Blue dextran-Sepharose 4B,**
affinity chromatography, enzyme, *Lactobacillus* 1652
affinity chromatography, glucose 6-phosphate dehydrogenase, *Lactobacillus fermenti*/*Lactobacillus buchneri* 1652
affinity chromatography, lactate dehydrogenase, *Lactobacillus fermenti* 1652
- Blue dextran-Sepharose 4B(Contd),**
affinity chromatography, 6-ubohydrogluconate dehydrogenase, *Lactobacillus fermenti* 1652
- Blue disease,**
cotton, resistance 7953 9938
- Blue mould,**
Penicillium italicum, citrus, fungicide 4441
Penicillium italicum, citrus post-harvest decay, 1-(beta-(allyloxy)-2,4-dichlorophenethyl)-imidazole 341
Penicillium italicum, satsuma mandarin, fungicide DF-125 5400
- Blue mould rot,**
Penicillium expansum, pomegranate post-harvest decay 8756
- Blue stain,**
Graohium, white pine, cryptosporiopsis 4555
Graohium, white pine, hvalodendrin 4555
Graohium, white pine, scytalinin 4555
- Blueberry,**
highbush, *Codronia cassandrae* 4173
highbush, *Monilinia vaccinii-corymbosi* 9851
lowbush, *Pucciniastrum goeppertianum*, balsam fir 8000
post-harvest decay 5398
post-harvest decay, *Alternaria*/*Botrytis cinerea*/*Gloeosporium* 2764
rabiteye, *Cercospora* 9850
- Bluegrass,**
Kentucky, *Drechslera poae* 8642
- Bluetongue virus,**
vaccine 8202
- Bluetongue virus vaccine,**
8202
- Blumea membrane,**
essential oil, antibacterial agent 5548
- Boehmeria nivea,**
Myrothecium roridum 7168
ramie, microbial degradation 111
Rhizoctonia bataticola 5721
- Boletus edulis,**
aroma compounds 7029
food 2594
mercury 193
pine, *Phytophthora cinnamomi* 8850
- Boletus variegatus,**
pesticides, *Boletus luteus*, pesticides 8917
- Boll rot,**
Diplodia gossypina, cotton 8688 8689
Diplodia gossypina, cotton, resistance 8688
Fusarium oxysporum, cotton 8688
Fusarium oxysporum, cotton, resistance 8688
- Bollworm,**
encapsulated nuclear polyhedrosis virus 6964
- Bologni,**
bacteria, shelf-life 6085
- Bolti fish,**
dried, nisin 1794
- Bombax ceiba,**
Ceraceosorus bombacis 1910
Dicellomyces bombacis 1910
- Bombyx mori,**
Bacillus thuringiensis delta-endotoxin 8578
Bacillus thuringiensis insecticide 8434
larva haemolymph, bactericide 7315
- Bone,**
animal, tetracycline 165
- Bone cement,**
Surgical Simplex P Radiopaque, erythromycin + colistin, antibacterial agent 3011
- Bone-meal,**
Salmonella, Rappaport's enrichment medium 10527
- Bordeaux mixture,**
Bipolaris Malodes, coconut palm 3506
Diplodia pinea, Austrian pine 8001
Hemileia vastatrix, coffee 5422
Melampsora larici-populina, poplar 2047
Phomopsis juniperovora, juniper 1127

Subject index

- Bordeaux mixture (Contd),**
 Phytophthora betel 8677
 Phytophthora palmivora, coconut palm 3506
 Sclerophthora rayssiae, corn 6356
 Xanthophyes juglandis, walnut 2050
- Bordetella,**
 carbonamidoquinoxaline-di-N-oxide derivatives 1226
 PathoTec system 7540
 test 1561
 Tribissen (sulphadiazine + trimethoprim) 2939
- Bordetella bronchiseptica,**
 3-chloro-2-oxazolidinones 7322
 3-chloro-tetrahydro-1,2,4-oxazines/oxazolidines 1267
 antibiotic A30641 2241
 azetidinone derivatives 3687
 cephalosporin derivatives 1319 2211 5665
 efrotomycin 5731
 kennel cough vaccine, dog 668
 nitrofuryl-vinyl-anilino-quinazoline derivatives 6504
 quinazoline derivatives 7037
- Bordetella parapertussis,**
 endotoxin 1819
- Bordetella pertussis,**
 + Staphylococcus aureus, culture medium 765
 adenylate cyclase 1636
 dermonecrotic toxin 3443
 endotoxin 1819 3443 4838
 endotoxin,
 7-O-(2-amino-2-deoxy-alpha-D-glucopyranosyl)-
 -L-glycero-D-manno-heptose 7849
 endotoxin,
 2-O-(beta-D-glucuronyl)-7-O-(2-amino-2-deoxy-
 -alpha-D-glucopyranosyl)-L-glycero-D-manno-
 heptose 8577
 envelope protein, radiolabelling,
 iodine-125-lactoperoxidase 4943
 leukocytosis-stimulating protein 4048
 lymphocytosis stimulating factor 3443
 preservation 4703
 toxin 4271
- Bordetella pertussis vaccine,**
 3836 4837 4838 4839 4840 4841
 US opacity standard 3090
- Bordeum vulgare,**
 Erysiphe graminis hordei 7879
- Borneol,**
 alpha-terpineol degradation, Pseudomonas
 aeruginosa 2556
- Boromycin,**
 Botrytis cinerea 4669
- Botran,**
 peach post-harvest decay 348
- Botryodiplodia,**
 corn 4330
- Botryodiplodia malorum,**
 pear 9843
- Botryodiplodia theobromae,**
 chilli 2733
 coconut palm 4382
 guava post-harvest decay, thiabendazole 2767
 malabar nut tree 1837
 mango post-harvest decay 9917
 oil palm kernels 4220
 orange post-harvest decay 3542
 pyridine derivatives 2823
 Russian-olive 2045
 tomato fruit rot 3545
- Botryodiplodia theobromae,**
 cacao 3506
 yam post-harvest decay 6327
- Botryotinia narcissicola,**
 rishitin 1961
- Botryotinia porri,**
 leek 7920
- Botrytis,**
 2-amidocarbonylthiobarbituric acids 2027
- Botrytis (Contd),**
 benzimidazole-1-carboximidic acid esters 1116
 biomass/protein, ethanol 2428
 biomass/protein, methanol 2428
 Dendroctium 9878
 dichlorophenyl derivatives, plant protection 5428
 plant disease, fungicide 7122
 soil 343c
 strawberry post-harvest decay, fungicide 5745
 triazino-benzimidazole derivatives, plant protection 3588
- Botrytis allii,**
 2,5-dihydroxy-1,4-benzquinones 4092
 acetylenic sulphones 512
 onion, fungicide 6360
 onion post-harvest decay 2770 4435
- Botrytis cinerea,**
 antibiotic A23187 2235
 antibiotics 4669
 antifungal agent 46c9
 apple post-harvest decay, phenolic compounds 345
 banana post-harvest decay 8751
 bean, phaseollin 3460
 bean proteinase inhibitor 2792
 benomyl resistance, plant protection 4626
 benomyl tolerance 637c
 benzimidazole resistance, plant protection 7204
 blueberry post-harvest decay 2764 5398
 boromycin 4669
 broad bean, leaf mycoflora 2660
 broad bean, wycorone cooxide 773
 carrot post-harvest decay 4434 6319 6816
 9911 9912
 chloranphenicol 4669
 cinnamyl phenols 532
 clover pterocarpan phytoalexin transformation 3463
 Dendroctium 9878
 dichlorophenyl derivatives, plant protection 5428
 dicloran resistance, plant protection 4626
 2,4-dinitrophenol 4669
 1,2-dithiol-3-thione derivatives 8577
 endopolygalacturonase/pectinmethylesterase 1631
 erythromycin 4669
 ethidium bromide 4669
 5-fluorouracil 4669
 fungicide, plant protection 7206
 grapevine 3512
 grapevine, benzimidazoles 4515
 grapevine, fungicide 5425
 grapevine, gibberellic acid 2010
 grapevine, manet 390
 grapevine, resveratrol 193c
 imidazolidine-1,4-dione derivatives 2135
 2-irino-2H-5-triazinol[1,1-b]-benzothiazole 6915
 2-isootobenzanilide 2797
 isothiazolopyridinone derivatives 2975
 L-case 7473 440y
 Leucospermum cordifolium 5377
 loganberry post-harvest decay 6321
 macroretrolic antibiotics 4669
 monensin 4669
 Norway spruce 8653
 onion 6278
 onion, fungicide 6360
 onion, phyllosphere bacteria 5382
 oxadiazolidine-3,4,5-dione derivatives 1116
 oxazolidine derivatives 3703
 pea 9766
 phenylethylalcohol 46c9
 phospholipase, plant disease 3309
 phosphoryl phenyldiamine derivatives 1118

Subject index

- Botrytis cinerea(Contd),**
 pigeon pea rhizosphere 6422
 post-harvest decay/vegetable post-harvest decay, hypobaric pressure 7183
 potato 327
 potato, rishitin/lyubimin 4495
 potting compost 2055
 pyridine derivatives 2823
 raspberry, ferbam 4507
 red clover, pterocarpin/isoflavone 1846
 rishitin 1961
 Rosaceae 5297
 scopathricin 4669
 soybean 9769
 strawberry 4291
 strawberry, fungicide 7976
 strawberry post-harvest decay 7192
 sugarbeet post-harvest decay, *Penicillium claviforme* 3544
 sunflower 8734 9943
 sunflower seed 1957
 tetracycline 4669
 tomato, fungicide 8804
 tomato, plant protection 5392
 triadimefon resistance, plant protection 4626
 triazine derivatives 3728
 triazolo-benzothiazole derivatives, plant protection 7216
 triorganotin compounds/triorganolead compounds 2129
 wine 104
 wine, fungicide 8447
- Botrytis fabae,**
 aminomethylenemalononitrile derivatives 3578
 broad bean, leaf mycoflora 2660
 broad bean, wyeron epxoxide 373
 rishitin 1961
 spores, plant leaves 7106
 triflorine 396
- Botrytis squamosa,**
 onion 6278 6279 7157
 onion, fungicide 6360
 onion, phyllosphere bacteria 5382
- Botrytis tulipae,**
 pyridine derivatives 2823
- Bottle,**
 sterile, closure 8108
- Bottle gourd,**
 bottle gourd mosaic virus, root-knot nematode 2740
 Colletotrichum lagenarium, fungicide 6357
 Erysiphe cichoracearum 304
 Pythium butleri 4374
 seed, fungi, fungicide 8682
 Sphaerotheca fuliginea 304
 watermelon mosaic virus 8673
- Bottle gourd mosaic virus,**
 + Sphaerotheca fuliginea, bottle gourds 2730
 bottle gourd, root-knot nematode 2740
- Bottle gourds,**
 bottle gourd mosaic virus + Sphaerotheca fuliginea 2730
- Bottle water,**
 Pseudomonas aeruginosa, selective medium 3192
- Bottled milk,**
 bacteria 8539
- Bottom outlet valve,**
 glass fermenter 4919
- Botromycin A2,**
 structure 6628
- Botulinum toxin,**
 1813 2640 5235 6149 6919 7081 7850
 activation, nicking 9729
 antibody, radioimmunoassay 3971
 blue crab meat 7019
 canned food, mould 3447
 Clostridium botulinum 2639
 Clostridium botulinum, phage 244
- Botulinum toxin(Contd),**
 Clostridium botulinum serotyping 8580
 cooked meat medium 10554
 crystallization 7082
 degradation, rumen bacteria 3445
 food 2641 3223 9730
 food poisoning 1713
 immunofluorescence adsorption microtest 994
 irradiated/non-irradiated vacuum-packaged trout 7851
 Kamaboko 1814
 molecular weight 7842
 mouldy tomato juice 3446
 water, chlorine disinfection 6718
- Botulinum toxoid,**
 7852
- Butyric acid,**
 Aspergillus niger 3698
 Aspergillus terreus 3698
- Bougainvilleae,**
 Phomopsis bougainvilleae 2663
- Bovine adenovirus vaccine,**
 2277
- Bovine ephemeral fever vaccine,**
 7459
- Bovista plumbea,**
 Penicillin amidohydrolase 3303
- Boxwood,**
 English, decline, Paecilomyces buxi, Fusarium oxysporum 10011
- Brachypodium ramosum,**
 rhizosphere bacteria, polysaccharide 3328
- Bracken,**
 fungal disease 9852
- Brain heart infusion blood agar,**
 Neisseria gonorrhoeae 7570
- Brake fluid,**
 antibacterial agent/antifungal agent, 1,10-phenanthroline 475
- Brasenia schreberi,**
 Dichotomophthoropsis nymphaearum 4369
- Brassica,**
 broccoli necrotic yellows virus 5366
 Peronospora parasitica 9861
 Plasmodiophora brassicae 6256
 resistance testing, Plasmodiophora brassicae 6339
 Sclerotinia sclerotiorum 8723
- Brassica campestris,**
 Alternaria brassicae 4412
 cauliflower mosaic virus 7944
 Cochliobolus sativus, wheat 2712
 cucumber mosaic virus 7944
 Leptosphaeria maculans 8722
 Leptosphaeria maculans, benomyl 3598
 Plasmodiophora brassicae 6293
 radish mosaic virus 7944
 resistance, Alternaria brassicae 4412
 Sclerotinia sclerotiorum 8723
 stored, fungi 6326
 turnip mosaic virus 7944
- Brassica chinensis,**
 turnip yellow mosaic virus 7904
- Brassica juncea,**
 Sclerotinia sclerotiorum, polymethylgalacturonase/cellulase 3508
- Brassica napus,**
 Alternaria brassicae 4412
 Cochliobolus sativus, wheat 2712
 Leptosphaeria maculans 6292 8722
 post-harvest decay 8759
 resistance, Alternaria brassicae 4412
 Sclerotinia sclerotiorum 8723
 stored, fungi 6326
- Brassica nigra,**
 seed, Aspergillus flavus 1838
- Brassica oleracea,**
 broccoli necrotic yellows virus 5366
 curd rot, antibiotics 402

Subject index

Brassica oleracea (Contd.),

- leaf extract, antiviral agent, tobacco mosaic virus 516
- Olpidium brassicae 6255
- Peronospora parasitica 9861
- Plasmodiophora brassicae, fungicide 2803 2804
- Plasmodiophora brassicae, lime 4503
- Plasmodiophora brassicae, soil sterilant 6358
- Plasmodiophora brassicae, pentachloronitrobenzene + hydrated lime 2811
- post-harvest decay, Phytophthora porri 1968
- radish mosaic virus 6254
- resistance, Peronospora parasitica 2787 4459
- resistance, Plasmodiophora brassicae 4460 4461
- Rhizoctonia solani, fungicide 1103
- seed, Phoma lingam, seed treatment fungicide 8837
- Xanthomonas campestris, seed treatment 8830

Brassica oleracea,

- Alternaria brassicicola 9853
- Plasmodiophora brassicae 6256
- resistance, Alternaria brassicicola 9853
- Sclerotinia sclerotiorum, benomyl 306

Brassica pekinensis,

- Erwinia carotovora 1913

Brassica rapae,

- Phoma lingam, toxin 7072

Brassicol,

- Ascochyta rabiei, gram 2799
- Fusarium/Rhizoctonia/Sclerotium, peanut 266
- Macrophomina phaseolina, papaya 2802
- Operculella padwickii 1100
- Rhizobium/Rhizobium + mung bean 3649
- Rhizoctonia solani, cotton 4523
- Sclerotium rolfsii, Caladium bicolor 8799
- Sclerotium rolfsii, Polyanthus tuberosa 8709
- seed dressing, Rhizobium, cowpea 2029
- seed treatment, Colletotrichum lindemuthianum, lablab 2824
- seed treatment, safflower seed mycoflora 8838
- seed treatment, Sclerotium rolfsii, lentil 4523
- Thielavia terricola, sesame 381

Brassicol 75WP,

- Fusarium oxysporum, ginger 2007

Bravo,

- Cercospora oryzae, rice 4486
- Entyloma oryzae, rice 4486
- Helminthosporium oryzae, rice 4486
- Pyricularia oryzae, rice 4486
- Rhizoctonia oryzae, rice 4486

Bread,

- Aspergillus flavus, aflatoxin, culture medium 6139
- Bacillus subtilis, heat resistance 7023
- dough, carbon dioxide 191
- dough, mushroom extract 192
- dough, yeasts 1756
- dried Saccharomyces cerevisiae 937 938
- low-protein, yeast leavened 7022
- propionic acid preservation 9684
- rye/wheat, nutritive assay, Aspergillus flavus 7021
- yeast-leavened, rice flour 3402
- yeast, sonication 8513

Bredinin,

- antitumour antibiotic 8417
- cytostatic agent 8417

Brefeldin A,

- Curvularia lunata 10356

Bremia lactucae,

- lettuce 4367 5376
- lettuce, fungicide 4391 5426
- lettuce, resistance 4467 4468 7956

Brestan,

- Ascochyta rabiei, gram 2799
- Operculella padwickii 1100
- Sclerophthora rayssiae, corn 6356

Brestan 60,

- Colletotrichum piperatum, chilli 4490
- Fusarium oxysporum, chilli 4490
- seed treatment, safflower seed mycoflora 8838

Brestanol,

- Sclerophthora rayssiae, corn 6356

Brettanomyces,

- acetoin 3344
- carbonated beverage 5239
- diacetyl 3344
- fruit syrup 5239

Brettanomyces naardenensis,

- carbonated beverage 5239
- fruit svrup 5239

Brevibacterium,

- + Trichosporon cutaneum, L-Lysine 2423
- amino acids 3230
- L-aspartic acid 9331
- hydrocarbon 7291
- 2-keto-L-gulonic acid 2420
- L-Lysine 2422 9336
- mesquite degradation 8457
- organophosphate insecticide hydrolysis 113
- protein, mesquite wood 3237
- purine degradation 119

Brevibacterium aerogenes,

- thiocyano xanthate derivatives 2972

Brevibacterium aminogenes,

- L-Lysine 817

Brevibacterium ammoniagenes,

- bacteriostat, diaper 5817
- 3-bromoacetoxy tetrahydrofuran 535
- carbamyloxy-benzamide derivatives 4691
- co-enzyme A 2506
- cysteine desulphhydrase, L-cysteine 6829
- guanosine polyphosphates 9448
- trifluoromethyl
- phenyl-3-(3',5'-dicyanophenyl)urea 2140

Brevibacterium divaricatum,

- L-Lysine 817

Brevibacterium flavum,

- L-arginine 814
- L-aspartic acid 9331
- catechol 1,2-dioxygenase, 3-methylcatechol 5924
- L-glutamic acid 5027 9333
- L-isoleucine 815
- L-Lysine 817
- L-phenylalanine 3233

Brevibacterium immariophilum,

- L-Lysine 817

Brevibacterium incertum,

- glucose isomerase, glucose, fructose 846

Brevibacterium lactofermentum,

- L-aspartic acid 9331
- L-glutamic acid 5027 9333
- L-leucine 4038
- lysine 1627 5895
- L-Lysine 817 8320
- L-phenylalanine 3233

Brevibacterium linens,

- cheese 152
- milk protein hydrolysis, cheese 5221

Brevibacterium lipolyticum,

- menaquinone 3342

Brevibacterium roseum,

- L-Lysine 817

Brevibacterium saccharolyticum,

- L-Lysine 817

Brevicoryne brassicae,

- broccoli necrotic yellows virus, cauliflower 5366

Brevistin,

- Bacillus brevis, antibacterial agent 2251
- structure 2252

Subject index

- Brew-N-zyme C6P13,**
beer, filtration 5176
- Brewers' grains,**
wet, silage, preservation 4232
- Brewer's yeast,**
see also *Saccharomyces carlsbergensis*
chicken feed 9615
- Brewery,**
bacteria, culture medium 7699
effluent, treatment 9184
fermenter 9504
hygiene 8444
Lactobacillus, sucrose agar culture medium 5170
Pediococcus, sucrose agar culture medium 5170
quality control 8445
Saccharomyces carlsbergensis, culture apparatus 8438
waste, *Aspergillus foetidus*, citric acid 7598
waste, fermentation, methane 10094
waste treatment 1460 4162
wild yeast 98
- Brewing,**
1699 415A 7695 7696 8440 9503
analytical methods 9512
bacteria, universal beer agar medium 5169
density, gas-bubble probe 1701
high gravity 895
microbiology 8437
polydimethylsiloxane foam breaker,
Saccharomyces cerevisiae 5173
saccharides, thin-layer chromatography 8441
Saccharomyces carlsbergensis, nitrate 5174
sterilisation 9512
water 4161
yeasts 7720 8437
- Brewing industry,**
gas chromatography 92
gel chromatography 91
- Brewing yeast,**
polymer fixation, beer 8439
- Bridelia retusa,**
Rotillardia sessilis 2663
- Brine,**
cucumber fermentation, carbon dioxide
purring, bloater control 4249
Pichia 7720
quality control, bacon curing 4241
- Brining,**
smoked Cornish game hen, microbiology 169
- Brinjal,**
see also Eggplant
brinjal mosaic virus, root-knot nematode 2740
little leaf disease 4375
little leaf, tetracycline 8829
Myrothecium oridum 3504
post-harvest decay, *Rhizopus stolonifer*,
fungicide 1965
resistance, little leaf 8829
resistance, little leaf disease 5409
Sclerotium rolfsii,
cyano(methylmercuri)guanidine 2011
Verticillium dahliae 1048 1049
Verticillium dahliae, fungicide 4489
- Brinjal mosaic virus,**
brinjal, root-knot nematode 2740
- Broad bean mosaic virus,**
antiviral agent, aspartic acid, ribonuclease 8996
- Broad bean mottle virus,**
sodium dodecyl sulphate 2397
- Broad bean stain virus,**
broad bean 259 3459
Echtes Ackerbohnemosaik-virus 1007
- Broad bean wilt virus,**
broad bean 7104
Celsia arcturus 7104
- Broad bean wilt virus(Contd),**
foxglove 7104
Salvezia speciosa 7104
pepper 8713
plant hosts 8590
- Broadbena mosaic virus,**
broad bean, antiviral agent 3591
- Broccoli,**
Plasmiodiophora brassicae,
pentachloronitrobenzene + hydrated lime 2811
- Broccoli necrotic yellows virus,**
Brassica 5366
cauliflower 5366
- Broiler-house,**
litter, silage, sheep feed 7789
- Brome mosaic virus,**
antiviral agent, plant protection 3592
barley 7877
barley protoplasts 8624
sodium codecyl sulphate 2397
- Bromegrass,**
Leptosphaeria nodorum 6236
Sclerophthora macrospora 4335
- Bromegrass mosaic virus,**
+ tobacco mosaic virus, barley 7878
pollen, plant disease 7103
- Bromelase,**
Streptococcus group A immunofluorescence 10597
- Bromelin,**
immobilization 4057
- 2-Bromo-2-hydroxyimino-acetophenone,**
derivatives, antibacterial agent 8065 8066
- 2-Bromo-2-nitropropan-1,3-diol,**
seed treatment, *Helminthosporium rostratum*,
wheat 4524
- beta-Bromo-beta-nitrostyrene,**
+ 1,3-dichloroacetone oxime acetate,
slimicide, industrial water system 2320
- Bromo-diphenhydramine hydrochloride,**
antibacterial agent 5549
- alpha-Bromo-p-methylacetophenone,**
+ 1,3-dichloroacetone oxime acetate,
slimicide, industrial water system 10470
- 3-Bromoacetoxy tetrahydrofuran,**
antibacterial agent/antifungal agent 533
- 5-(Bromoacetyl)-uracil,**
antibacterial agent 4660
- 6-Bromoindole-3-carboxaldehyde,**
marine *Pseudomonas* 6544
- Bromosan,**
snow mould fungi, turfgrass 4485
- Bromus catharticus,**
Ustilago bullata 1875
- Bromus inermis,**
Sclerophthora macrospora 4335
- Bromus mollis,**
nitrogen fixation, acetylene reduction assay 2882
- Bromus sterilis,**
Leptosphaeria nodorum 6236
- Bronchofiberscope,**
disinfection, hexachlorophene +
povidone-iodine + ethanol 5807
- Bronidox,**
cosmetic preservation 4698
- Bronopol,**
cosmetic preservation 4698
- Bronze wilt,**
tomato spotted wilt virus, tomato, plant
protection 5392
- Brown etch,**
Ascochyta cucumis/*Fusarium oxysporum*/*Fusarium*
roseum, pumpkin 4411
- Brown felt blight,**
Herpotrichia Coulteri, mountain pine 2840
Herpotrichia juniperi, pine, fungicide 2840
- Brown leaf rust,**
Puccinia dispersa, rye 2707

Subject index

- Brown leaf rust(Contd),**
Puccinia recondita tritici, wheat 4355
- Brown leaf spot,**
Alternaria alternata, *Cotoneaster acuminata* 7147
- Brown rot,**
Alternaria alternata, caranda 1044
Monilia, plum, resistance 4455
Monilinia fructicola, stone fruit, benomyl tolerance 4627
Sclerotinia fructicola, peach, benzimidazole fungicide tolerance 8798
- Brown rust,**
Puccinia dispersa, rye, resistance 1093
Puccinia hordei, barley 1866
Puccinia hordei, barley, oxycarboxin 2003
Puccinia hordei, barley, zineb 2003
Puccinia persistens, couch grass 7880
Puccinia recondita tritici, wheat 3490
Puccinia recondita, wheat 2713
Puccinia triticina, wheat 4315 5341 6237 9812
- Brown spot,**
Alternaria alternata, biological control, *Bacillus cereus* 9955
Alternaria alternata, tobacco, biological control 5416
Alternaria citri, tangerine 303
Cochliobolus miyabeanus, rice, 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589
Helminthosporium oryzae, rice, antifungal agent 4498
Helminthosporium oryzae, rice, fungicide 4486 7972
Physoderma maydis, corn, fungicide 8793 8794
Scirrhia acicola, pine 10003
- Brown spot needle blight,**
Scirrhia acicola, longleaf pine 8851
- Brown stem,**
Phoma sorghina, Orange Pincushion 1935
- Brown stripe downy mildew,**
Sclerophthora rayssiae, corn, fungicide 6356
- Broxoviomycin,**
carbon-13 nuclear magnetic resonance spectroscopy 8200
- Brucella,**
Actinomyces recifensis antibacterial agent 2480
L-form, penicillin + tetracycline/streptomycin/rifampicin 5639
lipopolysaccharide endotoxin 3444
milk, pasteurisation 4236
rifampicin 2229
selective medium 7551
- Brucella abortus,**
antibody, radioimmunoassay 5841
cattle, milk ring test 771
lipopolysaccharide endotoxin 3444
tetracyclines 7420
- Brucella abortus ovis,**
antibiotic 19 402 R.P. 3798
- Brucella abortus vaccine,**
8203
- Brucella B19 vaccine,**
preservation 5772
- Brucella bronchiseptica,**
nitroimidazole-pyrimidine derivatives 4661
- Brucella canis,**
dog, plate test 2375
- Brucella melitensis,**
cephalosporin R-sulphoxides 5637
lipopolysaccharide endotoxin 3444
penicillin R-sulphoxides 5637
tetracyclines 7420
- Brucella melitensis vaccine,**
5773 8203
- Brucella ovis,**
antigen, *Brucella canis* plate test, dog 2375
- Brucella suis,**
ceftezole 5654
tetracyclines 7420
- Brucellaceae,**
penicillin derivatives 1356 1357
- Brucellosis,**
canine, *Brucella canis*, plate test 2375
radioimmunoassay 5641
- Brucellosis vaccine,**
3086
- Brunchorstia pinea,**
Corsican pine 2844
pine 2814
- Brussels sprout,**
Alternaria brassicicola 9853
Plasmodiophora brassicae, lime 4503
Plasmodiophora brassicae, pentachloronitrobenzene + hydrated lime 2811
radish mosaic virus 6254
resistance, *Alternaria brassicicola* 9853
Xanthomonas campestris, seed treatment 8830
- Buckeye,**
Ohio, *Guignardia aesculi*, benomyl 10006
- Buckeye rot,**
Phytophthora nicotianae, tomato, fungicide 4494
- Bud blight,**
Phoma olomerata, peanut 2680
Phytophthora parasitica, *Pilea imperialis*, pyroxychlor 3518
- Bud canker,**
Fusicoccum amygdali, fusicoccin, almond 3492
- Bud death,**
Fusarium avenaceum, laburnum 7919
- Bud rot,**
Fusarium poae + mite, carnation 1916
Phytophthora arecae, arecanut 3506
Phytophthora palmivora, coconut palm, Eordeaux mixture 3506
- Budworm,**
encapsulated nuclear polyhedrosis virus 6964
- Buffalo,**
rumen bacterium protein digestibility 6096
- Buffalo milk,**
Bacillus 6040
- Buffer,**
phosphate, bacteriology 5756
- Building,**
animal, disinfection 9234
- Building sealant,**
polyvinylchloride, fungal degradation 4279
- Bulb rot,**
Sclerotium rolfsii, *Ornithogalum virens* 1071
- Bulgarein,**
Bulgaria inquinans 5130
- Bulgarhodin,**
Bulgaria inquinans 5130
- Bulgaria inquinans,**
bulgarein 5130
bulgarhodin 5130
- Bullera alba,**
esterase, cephalosporins 8132
- Bullera tsugae,**
esterase, cephalosporins 8132
- Bunch disease,**
mycoplasma-like organism, pecan 8670
- Bunt,**
Tilletia caries/*Tilletia foetida*, wheat 1895
Tilletia caries, wheat 4320
Tilletia caries, wheat, *Bacillus* seed treatment 4525
Tilletia foetida, wheat 4320
Tilletia foetida, wheat, *Bacillus* seed treatment 4525
Tilletia indica, wheat 9815
Tilletia laevis, wheat 4320
Tilletia tritici, wheat 4320
- Bupivacaine,**
antibacterial agent 6495

Subject index

- Buricol,**
 Neurospora crassa, sterols 5647
- Burns unit,**
 clothino 2346
- Busan,**
 seed treatment, *Pythium ultimum*, cotton 9992
 seed treatment, *Rhizoctonia solani*, cotton 8836 9992
 Xanthomonas malvacearum, cotton 3595
- Butanol,**
 9323
 2-methyl-1-, yeast, alpha-keto acid decarboxylase, alcohol dehydrogenase 6117
 3-methyl-1-, yeast, alpha-keto acid decarboxylase, alcohol dehydrogenase 6117
 Candida 9323
 Clostridium acetobutylicum 6955
- Butcher's shop,**
 hygiene, *Salmonella* 7761
 Yersinia enterocolitica 8508
- Butene,**
 + ozone, phage phiX174, air 8264
- cis-2-Butene-1,4-diol,**
 diesters, antibacterial agent/antifungal agent 3770
- Butenolide,**
 animal mycotoxins 3427
 cardenolide, hydroxylation, *Aspergillus ochraceus* 5104
 cardenolide, hydroxylation, *Cunninghamella blakesleeana* 5104
 cardenolide, hydroxylation, *Curvularia lunata* 5104
 hydroxylation, *Curvularia lunata* 5103
- Butirosin,**
 10258
 2-hydroxy-, *Bacillus circulans* 1408
 5-amino-5-deoxy-, antibacterial agent 1409
 antibacterial agent 3755
 assay, *Staphylococcus aminoglycoside* 4-adenylyltransferase 2183
 Bacillus circulans 1408 2171
 Bacillus circulans, aminoglycoside 3'-phosphotransferase 10457
- Butirosin A,**
 3-deoxy-, antibacterial agent/animal feed 2253
 5-amino-3,5-dideoxy, antibacterial agent 6629
 aminodeoxy-, aminotrideoxybutirosin A 2254
 aminotrideoxy-, antibacterial agent 2254
 derivative, antibacterial agent 10358
- Butirosins,**
 resistance, *Staphylococcus epidermidis*, tobramycin adenylyltransferase 6491
- Butt rot,**
 Ceratocystis paradoxa, pineapple, fungicide 8822
 Fomitopsis annosa, fir, rhizosphere microflora 408
 mycoflora, Scots pine 2038
 Polyporus frondosus, oak 2851
 Polyporus sulphureus, oak 2851
 Poria incrassata, *Sequoia gigantea* 6392
- Butter,**
 bacterial culture 922
 coliforms, quality control 5212
 cultured 5213
 cultured, starter bacteria 6049
 lactic acid bacteria 162
 microbiology, pesticide 1725
 Staphylococcus aureus, paper strip method 8473
- Butter-like dairy product,**
 Streptococcus diacetylactis/*Streptococcus cremoris*/*Streptococcus citrovorus* 1728
- Buttermilk,**
 cultured, starter bacteria 6056
 lactose, fungal beta-galactosidase 8486
 shelf-stable 4237
- Buttermilk(Contd),**
 stabiliser 963
 starter bacteria 7744
- Butternut,**
 walnut bunch, mycoplasma-like organism 3622
- Button shedding,**
 Colletotrichum gloeosporioides, betel nut palm 8679
- Butyl-p-hydroxybenzoate,**
 antibacterial agent/antifungal agent, cholera 7317
- Butyl propionate,**
 fungi, wheat seed 407
- sec-Butylamine,**
 Penicillium digitatum 3769 3711
- Butylated hydroxyanisole,**
 antibacterial agent/antifungal agent 5592
 antimicrobial agent, food preservative 958
- Butylated hydroxytoluene,**
 antibacterial agent/antifungal agent 5592
- Butyribacterium rettgeri,**
 waste treatment, hydrocarbon 2315
- Butyric acid,**
 waste whey fermentation 4852
- Butyric acid bacterium,**
 rum 5182
- Butyriivibrio,**
 urease assay 8271
- Butyriivibrio fibrisolvens,**
 rumen, ATP 6782
 ruminant feed, milk 944
- gamma-Butyrobetaine hydroxylase,**
 Pseudomonas 9366
- Butyrylcholinesterase,**
 Pseudomonas, mycelianamide, *Penicillium* 1427
- Butyrylcholinesterase inhibitor,**
 mycelianamide, *Penicillium* 1427
- Buxus sempervirens,**
 celine, *Paecilomyces buxi*, *Fusarium oxysporum* 10011
- Byssochlamic acid,**
 fruit juice 1808
- Byssochlamys fulva,**
 byssochlamic acid, fruit juice 1808
 chlamydospore 129
 heat resistance 10114
 heat resistance, apple juice 2618
 patulin 237
- Byssochlamys nivea,**
 food preservative 4252
 fruit syrup 6092
 heat resistance, apple juice 2618
 patulin 237
 patulin, fruit/fruit products 8571
 patulin, vegetables/vegetable products 8571
 patulin, water activity 977
 soil 2866
 spores, food preservative 3423
- Byssochlamys zolleniae,**
 2807
- Cabbage,**
 Chinese, *Erwinia carotovora* 1913
 Chinese, *Plasmodiophora brassicae*, pentachloronitrobenzene + hydrated lime 2811
 Chinese, turnip yellow mosaic virus 7904
 leaf extract, antiviral agent, tobacco mosaic virus 516
 Plasmodiophora brassicae 6256
 Plasmodiophora brassicae, fungicide 2803 2804
 Plasmodiophora brassicae, pentachloronitrobenzene + hydrated lime 2811

Subject index

Cabbage (Contd),

- Plasmidiophora brassicae, soil sterilant 6358
- post-harvest decay, *Phytophthora porri* 1969
- radish mosaic virus 6254
- resistance, *Peronospora parasitica* 2787 4459
- resistance, *Plasmidiophora brassicae* 4460 4461
- Sclerotinia sclerotiorum* 8723
- seed, *Phoma lingam*, seed treatment fungicide 8837

Cabbage black ring virus,

- + cucumber mosaic virus, *Arabis alpina* 8676
- + cucumber mosaic virus, *Arabis turrita* 8676
- Alyssum saxatile* 8676

Cabbage looper,

- cell culture, *Autographica californica*
- nuclear polyhedrosis virus 4011

Cacao,

- beans, fungi 4219
- Eotryodiplodia theobromae* 3506
- cacao swollen shoot virus 2731
- cocoa swollen shoot virus 4380
- Crinipellis perniciosa*, plant protection 7144
- Macrophoma* 3506
- Monilia royeri*, plant protection 7144
- Phytophthora palmivora* 2731 3506
- Phytophthora palmivora*, copper compound 6362
- Phytophthora palmivora*, fungicide 6359
- Phytophthora palmivora*, soil 10055
- Phytophthora*, plant protection 8784
- post-harvest decay, *Aspergillus tamaris* 2765
- post-harvest decay, *Aspergillus tamaris*, cellulase 2766
- resistance, cocoa swollen-shoot virus 6340
- resistance, *Phytophthora palmivora* 359
- Theobroma cacao* 1050

Cacao swollen shoot virus,

- cacao 2731

Cacodylic acid,

- forest soil, ammonification, nitrification 7265

Cadang-cadang,

- coconut palm 1922

Cadmium,

- activated sludge microorganisms 7482
- antibacterial agent/antifungal agent 6454
- antibacterial agent/antifungal agent, clay minerals 6455
- Escherichia coli* 10086
- resistance, *Pseudomonas aeruginosa*, + antibiotics resistance 7294
- resistance, *Staphylococcus aureus* 5533
- soil microorganisms 8018
- tolerance, *Penicillium ochro-chloron* 8930

Cadmium succinate,

- tolerance, *Sclerotinia homoeocarpa*, turfgrass 8796

Caecum,

- pig, *Salmonella* 5814

Caecoma,

- 8291

Caecoma peltatum,

- celery pine 4531

Caesalpinioideae,

- + *Rhizobium*, nodulation, nitrogen fixation 8900

Caesium,

- radioisotope, enrichment, *Spicaria violacea* 4987

Caesium chloride,

- Verticillium dahliae*, soil 1170

Caesulia axillaris,

- essential oil, antibacterial agent 5548

Caffeic acid,

- antiviral agent 8997
- Inonotus* 5149

Caffeine,

- Aspergillus niger* 3698

Caffeine (Contd),

- Aspergillus terreus* 3698
- degradation, *Pseudomonas putida* 904
- Staphylococcus aureus* 10160

Cairomycin B,

- Streptomyces*, antibacterial agent 6630

Cajanol,

- Helminthosporium carbonum*, pigeon pea 3566

Cajanus cajan,

- + *Rhizobium*, nitrogen fixation 4582
- arhar mosaic virus 3468 3469
- Colletotrichum truncatum* 2681
- Fusarium oxysporum* 7873
- Fusarium udum*, soil 1858
- Helminthosporium carbonum*, isoflavonoid 3566
- resistance, *Mycovellosiella cajani* 6331
- resistance testing, sterility mosaic 6330
- rhizosphere mycoflora 6422
- rhizosphere, *Pithomyces chartarum* 2867
- rosette disease, mycoplasma-like organism 5309

Cake,

- sponge, propionic acid preservation 9664

Caladium bicolor,

- Sclerotium rolfsii*, fungicide 8799

Calcined rice chaff smoke,

- fungicide 8988

Calcium,

- containing ion-exchange resins, dental caries 8262
- radioisotope, enrichment, *Spicaria violacea* 4987

Calcium alginate gel,

- immobilisation, microbial cells 6819
- immobilisation, microbial enzymes 6819
- immobilisation, microbial organelles 6819

Calcium cyanamide,

- soil microorganisms 6452

Calcium elenolate,

- influenza virus 4674

Calcium hydroxide,

- + formaldehyde, aflatoxins, peanut meal 228
- poliovirus, sewage 1462

Calcium phosphate,

- foot-and-mouth disease virus sedimentation 5868

Calcofluor,

- fluorescence microscopy, plant disease fungi 10609

Calculus,

- see Dental calculus

Caldariella acidophila,

- calgariellaquinone 6957

Caldariellaquinone,

- Caldariella acidophila* 6957

Calendula,

- Puccinia lagenophorae* 6250

Calendula officinalis,

- Alternaria calendulae* 8706

Calf,

- carcass, *Salmonella* 1521
- feed, yeast cell wall polysaccharide, alkane 6097

Calf industry,

- hygiene 1520

Calirus,

- Melampsora larici-populina*, poplar 2047

Calixin,

- Diplodia natalensis*, orange post-harvest decay 6318
- Hemileia vastatrix*, coffee 5422
- Melampsora larici-populina*, poplar 2047
- Penicillium digitatum*, orange post-harvest decay 6318
- Phomopsis citri*, orange post-harvest decay 6318
- Sclerotinia sclerotiorum*, orange post-harvest decay 6318

Callenectes sapidus,

- meat, *Clostridium botulinum*, toxin 7019

Subject index

- Callinectus sapidus**,
vitrio parahemolyticus, condiments 9588
- Callistemon lanceolatus**,
bark extract, watermelon mosaic virus, marrow 5434
- Callistephus chinensis**,
aster yellows, Mycoasmas-like organism 7493
Ciciopsis/Leveillula taurica 5299
- Callus culture**,
soybean, southern bean mosaic virus 5294
tobacco, tobacco mosaic virus 5294
- Calocybe indica**,
food 3409
mushroom 9401
protein amino acids 5236
- Calomel**,
seed treatment, Sclerotium cepivorum, onion 7991
- Calonectria crotalariae**,
peanut, aerial infrared imagery 6191
- Calonectria decora**,
8-hydroxy-6- α -chole-11-alcho-dimethyl-3-alkyl- α -
yl-1,2,7,6,5,6-hexahydro-2,6-
methano-3-benzazocinsno-3-benzazocin
transformation 2535
dioxxygenated 5 α -preonane hydroxylation 2508
halogeno-cxo-androstanes hydroxylation 58
steroid hydroxylation 6929
sulphur oxidation,
7-methylthioxanthone-2-carboxylic acid,
7-methylsulphinylxanthone-2-carboxylic acid 9483
- Calonectria nivalis**,
wheat 7693
- Calorimeter**,
flow, chemostat culture 7562
microbial culture 758
- Calorimetry**,
doxycycline, antibacterial agent 5699
dynamic, fermentation 2543
flow, Klebsiella aerogenes culture thermogram 7562
flow micro-, Saccharomyces cerevisiae frozen preservation 2982
flow, nystatin assay, Saccharomyces cerevisiae 5695
micro-, bacterial blood culture medium 10523
micro-, Mycoplasmales 3210
microorganisms 3157
tetracycline, antibacterial agent 5699
- Calotropis procera**,
Acremonium rutilum 1837
Chaetomium globosum 1837
Curvularia eragrosticis 1837
Fusarium cawseti 1837
Microspora oryzae 1837
- Calvatia craniforms**,
calvatic acid, antibacterial agent/antitumour
antitiotic 10359
- Calvatic acid**,
Calvatia craniforms, antibacterial
agent/antitumour antitiotic 10359
- Camptosporium prunifolium**,
Rosaceae, 5297
- Camellia sinensis**,
Exobasidium vexans, BAS 3050 F 1109
- Camote**,
abaca mosaic virus 5293
- CAMP-disc test**,
Streptococcus group B 10598
- CAMP reaction**,
Streptococcus group B 3194
- Campanula garganica**,
cucumber mosaic virus 8676
- Campanula poscharskyana**,
cucumber mosaic virus 8676
- Campanula rapunculoides**,
Oidium 124
- Camphor**,
degradation, Pseudomonas aeruginosa 1137
degradation, Pseudomonas putida 1187
- Campogran-M**,
Cercitium fici, fig 5421
Colletotrichum, fig 5421
fungicide, plant protection 5417
- Camptothecin**,
Cphicrhiza muncos extract, antiviral agent 5995
- Campylobacter coli**,
dimetridazole 7324
- Campylobacter fetus**,
culture medium 772
dimetridazole 7324
- Canada golden rod**,
Erysiphe cichoracearum 304
- Canavalia ensiformis**,
+ Rhizobium 4581
Coleochoma empetri 1008
nodulation 2076
- Canavalia gladiata**,
nodulation 2076
- Cancer**,
Pseudomonas bruncrum, cherry 9817
Pseudomonas prunorum, plum 9817
Pseudomonas syringae, cherry 9817
Pseudomonas syringae, plum 9817
- Candididin**,
antifungal agent 9130
methyl ester 10266
resistance, Candida krusei 7312
resistance, Candida parakrusei 7312
resistance, Candida tropicalis 7312
Streptomyces, fatty acid 4748
Streptomyces criseus 2255 9129
- Candicin**,
yeasts 2170
- Candida**,
acetoin 3344
Actinomyces ricifensis lytic enzyme 2480
S-adenosylmethionine/methylthiadenosine 871 1687
air 7462
allicin 7332
amine degradation 4168
animal feed/food, methanol 320
antibiotic H 537SY2 5708
antibiotic SPA-S-222 6620
beta-ursolic acid 6532
beverage proportioning pumps 4225
biomass, butanol 9323
biomass, RNA 8309
blood culture 768
candididin 9130
carbonated beverage 5239
cassava fermentation, garri 8451
citric acid 9324
clotrimazole + sulphamethoxazole 4670
culture 8292
diacetyl 3344
diaryl-pyridyl-imidazole methanes 4671
fatty acid, continuous culture 6007
5-fluorocytosine, protozoan culture medium 9024
food 7719
frozen food 6026
fruit syrup 5239
fuel tank, organic acids 4617
garlic extract 10169
germicide 6742
imidazolyl-O,N-acetal derivatives 3704
levorin 10378
lipid, continuous culture 6007
lipolytic enzymes 6815
mannan 3216
meat/meat product 8505
metal ions 3699
methanol 3235
phacidin 10398

Subject index

Candida (Contd),

plastics degradation 5195
 Primula acaulis saponin 2120
 protein, animal feed 1765
 protein, hydrocarbon, food/feed 133
 quaternary ammonium compound 2961
 rapamycin 1437
 restoration, dessication 3739
 sesame phylloplane 1949
 slime, fibreboard industry 10471
 tetradecane oxidation, citric acid 10103
 triazole derivatives 2960
 urea hydrolysis, Berthelot colour reaction 6795

Candida 107,

lipid, continuous culture 6006

Candida albicans,

1-[4-(alkoxyphenoxy)-butyl]-1-ethyl-piperidin-
 ium bromide 2077
 + Actinomyces tropicalis, levorin +
 levoristatin 4809
 + Shigella, antibiotics/antibacterial
 agent/antifungal agent 5631
 acetoin 3344
 2-acetylindole halooen derivatives 5597
 aconitase 5914
 aconitase, alkane 5914
 actinomycin antibiotic 70591 1389
 aliphatic diol diesters 3720
 alpha,omega-alkanedicarboxylic
 acids/alpha,omega-alkanedicarboxylic acid
 dimethyl esters 1231
 alkyltin cyclopropyl derivatives 1260
 aminocarbonylthioates 1263 1264
 alpha-aminolaurophenone/alpha-aminolauropheno-
 ne derivatives 5571
 ammonium/potassium isobutyrate 1257
 amphotericin B 2232 10326
 amphotericin B + antioxidants 7416
 amphotericin B, culture medium 3706
 amphotericin B + doxycycline 5646
 amphotericin B + 5-fluorocytosine 8590
 amphotericin B methyl ester hydrochlorides
 5644
 amphotericin B, radiometry 5694
 amphotericin B + rifampicin 5646
 amphotericin resistance - 6489
 antibiotic A23187 2239
 antibiotic A30641 2241
 antibiotic A-26771 1390
 antibiotic EM-49 tetramidino derivatives
 5707
 antibiotic H 537SY2 5708
 antibiotic SPA-S-222 6620
 antibiotics +
 vitamins/nicotinamide/p-aminobenzoic acid
 2991
 antifungal agent 506 1234
 antifungal agent, hydrogen peroxide 2953
 Bacillus subtilis antibiotic 9028
 barbituric acid derivatives 2140
 beta-ursolic acid 6532
 bis(propynyloxy)benzenes 8075
 blood culture 1592 2392
 candididin 9130
 epsilon-caprolactam + alkanediamine
 derivatives 2149
 epsilon-caprolactam + N-alkylalkylene diamine
 reaction product 3126
 epsilon-caprolactam + N-alkylpropylene
 diamine reaction products 8102
 catalase 5914
 catalase, alkane 5914
 chlamydsopore, milk medium 7580
 N-chlorocarboxylic acid derivatives 529
 citrate synthase 5914
 citrate synthase, alkane 5914
 clotrimazole 10173
 clotrimazole + dioctyl sodium
 sulphosuccinate/surfactants 10174

Candida albicans (Contd),

clotrimazole + sulphamethoxazole 4670
 contact lens sterilising solution 1282 1284
 culture 3642
 cyclic dioneone derivatives 1260
 debariodidine 1412
 diacetyl 2344
 D-3,6-diaminohexanoic acid
 2-(carboxymethyl)-2-methylhydrazine 2151
 2,4-diaminquinazoline derivatives 7335
 1,3-dioxane-4,6-dione derivatives 9007
 bis(diphenylaminomethane) derivatives 1265
 econazole 2974
 5-fluorocytosine 2952 10176
 5-fluorocytosine, disc sensitivity testing
 557
 food, acidified potato dextrose
 agar/non-acidified chlorotetracycline potato
 dextrose agar 1591
 formaldehyde 5523
 fungicide 1238
 fungicide, Coulter Counter 4665
 fungistat, diacer 5817
 furancarabamic acid esters 2143
 Gloeophyllum sepiarium oospolactone 2538
 glutaraldehyde 5568
 gramicidin A/gramicidin A analogues 14804
 hexachloroethene + povidone-iodine + ethanol,
 bronchofiberscope disinfection 5807
 hydrazino-pyridine derivatives 2139
 identification medium 10616
 identification schemes 10617
 imidazolidine-1,4-dione derivatives 2135
 imidazole-1-oxide derivatives 6512
 imidazolyl-tetralin derivatives 6512
 imidazolylacetic acid amides 515
 iodine disinfectant 8253
 iodopolymers 1258 1259
 isocitrate lyase 5914 9407
 isocitrate lyase, alkane 5914
 levorin 10378
 levorin/decamethoxin, thermogenesis 4971
 malate dehydrogenase 5914
 malate dehydrogenase, alkane 5914
 methoxychlor degradation 8458
 2-methylthio-5-(3-iodopropargyloxy)-pyrimidin-
 e 2763
 miconazole 2952 2974 6513 10173
 miconazole, culture medium 3706
 microbial degradation 8458
 morpholino-N-acetohydrazide hydrazones 2152
 N-methyl-oligopeptides 535
 NAD-linked glutamate dehydrogenase 5914
 NAD-linked glutamate dehydrogenase, alkane
 5914
 NAD-linked isocitrate dehydrogenase 5914
 NAD-linked isocitrate dehydrogenase, alkane
 5914
 NADP-linked glutamate dehydrogenase 5914
 NADP-linked glutamate dehydrogenase, alkane
 5914
 NADP-linked isocitrate dehydrogenase 5914
 NADP-linked isocitrate dehydrogenase, alkane
 5914
 nitroimidazolyl-acetylpropenoic acid
 derivatives 2136
 nitroperhydropyridodiazepine derivatives
 2976
 nychimycin A1-scopafungin 644
 nystatin methyl ester hydrochlorides 5644
 n-oxypropyl thiol aluminium derivatives 749
 Panseolus antibiotics 6545
 papulacandins 10396
 partricin 2267
 partricin esters 2260
 partricin methyl ester 2267
 Pellicularia sasakii/Pellicularia filamentosa
 cell wall-lysine enzyme complex 4072
 pentachlorophenol, water microorganisms 9220

Subject index

Candida albicans(Contd),

- phenyl-imidazolyl-fatty acid derivatives 678
- phenyl-indole derivatives 6530
- phosphatase, amphotericin B 5645
- phosphatase, levorin 5645
- phosphatase, nystatin 5645
- piperidino-N-acetohydrazide hydrazones 2152
- pollution indicator, sea water 2339
- polyene antibiotics 565
- poultry feed, gentian violet 956
- pyrano-indole derivatives 7349
- pyridazine-2-oxide derivatives 3932
- pyrrolidine derivatives 9006
- quaternary ammonium compounds 1535 2145 2146
- quinoline derivatives 2140
- quinolizine-2-carboxylic acid derivatives 4694
- quinolizine derivatives 8100
- rapamycin 1437
- resistance, formaldehyde 5523
- resistance, polyene antibiotics 4639
- ribofuranosyl-1,2,3-triazole derivatives 3727
- rifampin + amphotericin B, microdilution transfer plate technique 5627
- S-alkylthiuronium halides 6527
- selective medium 3162
- sesame phylloplane 1949
- shellfish 6086
- silicoorganic amines 530
- sulphonamide derivatives 6528
- swimming pool 3143
- test 1559
- tests 1593
- tetrahydro-cyclopropa(b)naphthalenes 4692
- Thalictrum rugosum alkaloid 2144
- thiadiazolo-benzimidazole derivatives 8081
- thio-beta-lactam cephalosporins 5666
- thio-beta-lactam penicillins 5679
- thiolacetic acid derivatives 3723
- triazenoimidazoles 1271
- triazole derivatives 2960
- trimethoxybenzoylamino acid derivatives 8095
- turbidity 3204
- Vega disinfectant 9232
- veterinary topical products 2970
- vitamin D3 10187

Candida alcomigas,

- culture, ethanol 781

Candida alcophila,

- biomass, butanol 9323

Candida arborea,

- fruit cannery waste 911

Candida boldinii,

- biomass, methanol 6825
- culture medium, methanol, Rosenbrock's method 5856
- culture, methanol, formaldehyde/formic acid 4003
- fatty acid, glucose/hydrocarbon 5906
- fermentation 4914
- methanol, formaldehyde/formic acid 2418
- protein, animal feed 1766
- protein, methanol 3235

Candida butanolphila,

- biomass, butanol 9323

Candida butanolytica,

- biomass, butanol 9323

Candida cloacae,

- biomass-protein, soybean whey culture medium 6838

Candida crusei,

- 2-methylthio-5-(3-iodopropargyloxy)-pyrimidine 3705

Candida curvata,

- protein, pasta product 3404

Candida cylindracea,

- lipase, racemic alcohol esterification 8369

Candida ellipsis,

- biomass, butanol 9323

Candida guilliermondii,

- alkanes 10101
- amphotericin B, radiometry 5694
- autolysis 1716
- biomass-protein, soybean whey culture medium 6638
- ergosterol + ubiquinone-9 2537
- extract 5885
- 2-methylthio-5-(3-iodopropargyloxy)-pyrimidine 3705
- protein-vitamin concentrate, food/animal feed 3241
- tests 1593

Candida intermedia,

- hydrocarbon 8043 8044
- 2-methylthio-5-(3-iodopropargyloxy)-pyrimidine 3705

Candida japonica,

- sugars/sugar alcohols 5593

Candida krusei,

- amphotericin B, radiometry 5694
- antibiotic H 5375Y2 5708
- bakery dust 9172
- beta-ursolic acid 6532
- Curcuma zedoaria extract 3695
- econazole 2974
- levorin 10378
- miconazole 2974
- panjabi wares 4163
- polyene antibiotics resistance 7312
- protein 5037
- tests 1593

Candida lipolytica,

- acetyl-CoA carboxylase 4060 4061
- animal feed 5240
- autolysis 1716
- cheese-like flavour 4204
- citric acid 5021 5022 9326
- citric acid, paraffin 3663 5022
- DDT degradation 9526
- extract 5885
- food 7719
- glucose-6-phosphate dehydrogenase 3278
- glutaraldehyde 6525
- hexadecane degradation, haptachlor 4624
- hydrocarbon 6468
- isocitrate lyase 3286
- isocitric acid 5021
- lipid, hydrocarbon, leather fat liquoring composition 3666
- lipids, alkane/glucose 10102
- methylcitrate synthase 2482
- methylisocitrate lyase 3286 8374
- Pellicularia sasakii/Pellicularia filamentosa cell wall-lysing enzyme complex 4072
- 6-phosphogluconate dehydrogenase 3278
- protease 7652
- protein, animal feed 1765 1766
- protein, food, hydrocarbon, ribonuclease 1717
- protein, pasta product 3404
- proteinase 2501
- Trichoderma viride, cellulase 6875

Candida maltosa,

- hexadecane degradation, heptachlor 4624

Candida methanolica,

- methanol 780

Candida neoformans,

- triazenoimidazoles 1271

Candida parakrusei,

- polyene antibiotics resistance 7312

Candida parapolitytica,

- lipase 7635

Candida parapsilosis,

- alkane 4914
- amphotericin B 2232
- amphotericin B assay, rubidium-86 release 3791

Subject index

Candida parapsilosis(Contd),

amphotericin B, culture medium 3706
amphotericin B, radiometry 5694
blood culture 1592
clotrimazole + sulphamethoxazole 4670
econazole 2974
5-fluorocytosine 2952
2-methylthio-5-(3-iodopropargyloxy)-pyrimidin
e 3705
miconazole 2952 2974
miconazole, culture medium 3706
shellfish 6086
tests 1593

Candida pelliculosa,

aminocarbonylthioates 1263 1264
hydrazino-pyridine derivatives 2139

Candida pseudointermedia,

kamaboko 6088

Candida pseudotropicalis,

amphotericin B, radiometry 5694
antibiotic H 5375Y2 5708
econazole 2974
2-methylthio-5-(3-iodopropargyloxy)-pyrimidin
e 3705
miconazole 2974
protein, animal feed 1766
protein, sunflower seed husks 8340

Candida pulcherrima,

protein, pasta product 3404

Candida rugosa,

hydrocarbon, oxygen transfer coefficient
6469

Candida sake,

loganberry, post-harvest decay 6321

Candida scottii,

amphotericin B 9106
culture, peat + wood neutralysates 2433
food 7719
nystatin resistance 5539

Candida sphérica,

biomass, butanol 9323

Candida splitica,

biomass, butanol 9323

Candida stellatoidea,

Bacillus subtilis antibiotic 9028
fatty acid, sodium chloride 9324
lipid, sodium chloride 9324
miconazole assay 5572
tests 1593

Candida tropicalis,

Actinomyces cinerosus yeast-lytic enzyme
2954
alkane, food/animal feed 4189
alkane oxidation, catalase 8941
D-amino acid oxidase 5917
amino acids, hydrocarbon 485
amphotericin B, culture medium 3706
amphotericin B, radiometry 5694
antibiotic H 5375Y2 5708
autolysis 1716
beta-ursolic acid 6532
biomass 10528
biomass, coal extracts 8310
blood culture 1592
catalase, alkane 5521
citric acid 9326
clotrimazole + sulphamethoxazole 4670
econazole 2974
ergosterol + ubiquinone-9 2537
extract 5885
fatty acid, glucose/hydrocarbon 5906
5-fluorocytosine 2952
glutamate dehydrogenase 9402
hydrocarbon 8043
hydrocarbon, continuous culture 10516
hydrocarbon, tubular loop fermentor 6967
levorin 10378
lipids, alkane/glucose 10102
2-methylthio-5-(3-iodopropargyloxy)-pyrimidin
e 3705

Candida tropicalis(Contd),

miconazole 2952 2974
miconazole, culture medium 3706
NAD-linked isocitrate dehydrogenase 9406
NADP-linked isocitrate dehydrogenase 9406
polyene antibiotics resistance 7312
protein, animal feed 1765
protein, food, hydrocarbon, ribonuclease
1717
protein, hydrocarbon 485
protein, sunflower seed husks 8340
protein-vitamin concentrate, food/animal feed
3241
Serratia marcescens nuclease 6906
shellfish 6084
sulphite waste liquor + ethanol 9322
tests 1593
vesicles, alkane 8942

Candida utilis,

6876
+ Trichoderma viride, cellulase + protein
3239
+ vitamin, tablet 806
autolysis 1716
biomass 6826
biomass, cellulose waste hydrolysate 6704
biomass, ethanol, multi-stage tower fermentor
6824
biomass, fermentation industry slops 5886
cell wall, Thermoactinomyces vulgaris lytic
enzyme 32
cellobiose 9443
chemostat culture 9292 9293
chemostat culture, computer 10619
continuous culture 9292 9294
continuous-flow cell cycle fractionation
6794
culture 782
culture, ethanol 781
culture, gas chromatography 5882
culture purity, immunofluorescence 5857
disintegration 2365 10618
ethanol culture 1 804 805
ethanol culture medium 8294
ethylene culture 1190
extract 5885 8311
fatty acid, glucose/hydrocarbon 5906
fermentation, gas-exchange, computer 3354
food 1715 6033
fruit cannery waste 911
beta-(1-3)-glucanase 30
exo-beta-D-glucanase 2465 3277
invertase, immobilisation, porous cellulose
beads 6899
Levorin 10378
lyophilisation 2159
mannan, immobilisation, concanavalin
A-maonetite 8305
nitrate reductase 1664
Pellicularia sasakii/Pellicularia filamentosa
cell wall-lysing enzyme 4072
protein 8342
protein, animal feed 1766
protein, cattle manure, animal feed 9615
protein, ethanol 4055 5038 5905
protein, food 1718 9346
protein, nopal fruit 5903 5904
protein, pasta product 3404
protein, sunflower seed husks 8340
protein, tower cycling fermenter 5902
protein-vitamin concentrate, food/animal feed
3241
protein, waste treatment liquor 8341
sauerkraut brine treatment 6701
sulphite waste liquor + ethanol 9322
suspensions 10527
transaldolase isozyme I 5059
transaldolase isozyme III 5099
urea amidolysase 6927
whey fermentation, animal feed 7779

Subject index

- Candida vini**,
5-nitrofurylacrylic acid, wine 3359
- Candida zeylandoides**,
citric acid 9375
- Candidihexin**,
Streptomyces viridoflavus 630
- Candimycin**,
methyl ester 1C266
- Cane gall**,
Agrobacterium rubi, raspberry 1078
- Cane rot**,
Rhizoctoria bataticola, ramie 8721
- Canine adenovirus**,
kennel cough vaccine, dog 668
- Canine brucellosis**,
Brucella canis, plate test 2375
- Canine hepatitis virus**,
disinfectants 1241
- Canine parainfluenza virus**,
kennel cough vaccine, dog 668
- Canker**,
Agrobacterium tumefaciens, grapevine 9870
beech 1155
Botryodiplodia malorum, pear 9843
Ceratocystis fimbriata, poplar 7240
citrus 1C43
Corynebacterium michiganense, peeper 323
Corynebacterium michiganense, tomato 1960
9902
Corynebacterium michiganense, tomato, plant
protection 5392
Corynebacterium michiganense, tomato,
resistance 1951 8779 9902
Cytophora kunzei, Douglas fir 10006
Cytophora kunzei, spruce 10006
Cytophora leucostoma, peach, benomyl 2023
Cytophora leucostoma, prune 1907
Endothia parasitica, chestnut, biological
control 3617
Godronia cassandrae, highbush blueberry 4373
Hypoxyton mammatum, aspen, resistance 5455
Hypoxyton mammatum, aspen, Saperda inornata
5454
Hypoxyton mammatum, trembling aspen 415
Nectria galligena, apple 7137
Phomopsis elaeagni, Russian olive 4539
Pseudomonas mors-prunorum, sour cherry 7138
Pseudomonas mors-prunorum, sweet cherry 1901
5351
Pseudomonas syringae, peach 3497
Pseudomonas syringae, sour cherry 7138
Septoria musiva, poplar 5463
Sphaeropsis tumefaciens, Natal-plum 5380
Synchytrium endobioticum, potato 7932
Thyronectria austro-americana, honeylocust
4536
Xanthomonas citri, Citrus, copper compound
2C26
Xanthomonas citri, Citrus, electron
microscopy 5832
Xanthomonas citri, lime 1045 2723
Xanthomonas vesicatoria, tomato, copper
compound 2C26
- Canker stain**,
Ceratocystis fimbriata, plane, fungicide
5462
- Canna indica**,
canna mottle virus 8683
- Canna mottle virus**,
Canna indica 8683
- Canna sebrina**,
Colletotrichum dematium 8595
Colletotrichum gloeosporioides 8595
- Cannanoid**,
microbial transformation 8426
tetrahydrocannabinol, microbial
transformation 8427
- Cannabinol**,
tetrahydro-, hydroxylation, Pellicularia
filamentosa 4146
- Cannabinol (Contd)**,
tetrahydro-, hydroxylation, Streptomyces
lavendulae 4146
- Cannabis sativa**,
Pseudoperonospora cannabina 2651
- Canned apricot**,
flame sterilisation 2617
- Canned dairy product**,
sterile 6124
- Canned food**,
bacteria 4185
Eyssochlamys fulva chlamydo spores 129
cooling water, chlorine compounds 1780
heat sterilisation 5248
hygiene 5810
Lethality-Fourier number method 9658 9659
9665
moulo, Clostridium botulinum toxin 3447
rotational sterilisation 7793
sterilisation 1779 9657
sterilisation apparatus 3420
- Canned fruit**,
flame sterilisation 1798
hygiene, Geotrichum 9593
- Canned grapefruit**,
Lactobacillus brevis 6091
- Canned ham**,
pasteurisation, swine fever virus 4240
sliced, vacuum-packaged, bacteriology 7806
- Canned herring**,
Lactobacillus casei histamine, food poisoning
9587
- Canned meat**,
219
microorganisms, heat resistance 5157
nitrite, Clostridium botulinum 9678
- Canned mushroom**,
post-harvest storage 7030
- Canned pork**,
Staphylococcus aureus, food poisoning 2582
- Canned tomato**,
flame sterilisation 1798
mould, Clostridium botulinum toxin 3447
- Canned vegetable**,
hygiene, Geotrichum 9593
- Cannery**,
waste, activated sludge treatment 6694
- Cannery waste**,
yeast 911
- Canning**,
fruit 7053
- Canning industry**,
hygiene 5810
- Cantoniomyces stigeoclonia**,
fungal oospore parasite, soil 8881
- Cantharellus sibiricus**,
aroma compounds 7029
- Cap Saint-Paul disease**,
coconut 10648
- Cape St. Paul wilt**,
mycoplasma-like organism, coconut palm 1054
- Capillary pedoscope**,
soil microbiology 1160
- Capnodium**,
willow 10018
- Capnodium salicinum**,
Rosaceae 5297
- Capreomycin**,
Mycobacterium tuberculosis 5724
resistance, Mycobacterium smegmatis 6481
resistance, Mycobacterium tuberculosis 6482
7307
- Caproic acid**,
silage 7044
silage preservation 9645

Subiect index

epsilon-Caprolactam,

- + alkanediamine derivatives, antibacterial agent/antifungal agent 2149
- + alkanediamines, antibacterial agent/antifungal agent, water systems 2318
- + N-alkyl-propylene-diamine, reaction products, antibacterial agent/antifungal agent 8102
- + N-alkylalkylene diamine reaction product, antibacterial agent/antifungal agent, industrial water system 3126

Caprylate-thallous agar,

- Serratia selective medium 3993

Caprylic acid,

- fungistat 10167

Capsicum,

- Colletotrichum capsici, plant protection 7145
- cucumber mosaic virus 1053
- Fusarium, plant protection 7145
- Phaeoramularia capsicicola 2753
- Phytophthora, plant protection 7145
- Pythium, plant protection 7145
- resistance, Verticillium albo-atrum 9940
- Rhizoctonia, plant protection 7145
- Verticillium albo-atrum 9940
- viral diseases, plant protection 7145

Capsicum angulosum,

- resistance, Verticillium albo-atrum 9940
- Verticillium albo-atrum 9940

Capsicum annuum,

- Botryodiplodia theobromae 2733
- broad bean wilt virus 8713
- chilli leaf curl virus, Bemisia tabaci, insecticide 7964
- Cladosporium oxysporum 1000
- Colletotrichum capsici, sporulation 1001
- Colletotrichum piperatum, fungicide 4490
- cucumber mosaic virus 1052 1053
- cucumber mosaic virus, antiviral agent 8834
- cucumber mosaic virus, plant growth regulators 3555
- Fusarium oxysporum, fungicide 4490
- Glomerella cingulata 2733
- leaf test, potato aucuba mosaic virus 4401
- Leveillula taurica, auxins 9952
- Oidiopsis 1919
- Phoma solanica 3523
- Phytophthora capsici 9879
- Phytophthora palmivora 3506
- potato virus Y 1059 6304 9845
- resistance, chilli leaf-curl virus 4462
- resistance, chilli mosaic virus 4462
- resistance, curly top virus 9939
- resistance, pepper veinial mottle virus 5410
- resistance, tobacco etch virus 8776
- resistance, Verticillium albo-atrum 9940
- Rhizoctonia bataticola, bavistin 6370
- Sclerotinia sclerotiorum 2733
- seed, Aspergillus flavus 1838
- tobacco etch virus 1936
- Verticillium albo-atrum 9940
- Verticillium dehliae 4370
- Xanthomonas vesicatoria 6249
- Xanthomonas vesicatoria, triazinedione derivatives 1119

Capsicum chinense,

- resistance, tobacco etch virus 8776

Capsicum frutescens,

- Colletotrichum piperatum 2734
- Corynebacterium michiganense 323
- resistance, Verticillium albo-atrum 9940
- Verticillium albo-atrum 9940

Capsule,

- Klebsiella pneumoniae, chemical fixation, electron microscopy 9273

Captaf,

- Alternaria cucumerina, squash 382

Captaf 83 W,

- seed treatment, safflower seed mycoflora 8838

Captafol,

- + ethephon, Alternaria solani/Alternaria tenuis/Colletotrichum, tomato 8805
- Bremia lactucae, lettuce 4391
- Diaporthe citri, grapefruit 2722
- Fusarium, asparagus 9965
- Phytophthora fragariae, strawberry 2807
- Phytophthora parasitica, tobacco 9972
- Rhizoctonia solani/Pythium aphanidermatum, cucumber 380
- seed treatment, Phoma betae, sugarbeet 8839

Captan,

- Alternaria cepulicola, onion 4492
 - Alternaria cucumerina, squash 382
 - Alternaria trititica, wheat 1102
 - Ascochyta rabiei, gram 2795
 - benomyl-tolerant Botrytis cinerea, strawberry 8806
 - Ceratocystis ulmi, elm 2044
 - Cercospora sorghi, Sorghum bicolor 7973
 - Chromelosporium fulvum, Crambe abyssinica 8691
 - Colletotrichum piperatum, chilli 4490
 - fungi, strawberry post-harvest decay 8760
 - Fusarium oxysporum 4484
 - Fusarium oxysporum, chilli 4490
 - Fusarium oxysporum, wheat 2801
 - Geotrichum candidum, orange post-harvest decay 2771
 - Gloeocercospora sorghi, Sorghum bicolor 7973
 - grape post-harvest decay 4437
 - Macrophomina phaseolina, papaya 2802
 - Operculella padwickii 1100
 - Phomopsis viticola, grapevine 9966
 - Physoderma maydis, corn 8793
 - Phytophthora nicotianae, mandarin orange 2724
 - radiate pine seed dressing, mycorrhiza 7989
 - Rhizobium/Rhizobium + mung bean 3649
 - Rhizoctonia solani, cauliflower 1103
 - seed dressing, radiate pine, mycorrhiza 6382
 - seed treatment, bean 7990
 - seed treatment, Colletotrichum lindemuthianum, lablab 2824
 - seed treatment, fungi, bean 1859
 - seed treatment, fungi, soybean 1859
 - seed treatment, Geniculodendron pyriforme, Sitka spruce 7238
 - seed treatment, Pythium ultimum, cotton 9992
 - seed treatment, Rhizoctonia solani, cotton 8836 9992
 - seed treatment, Rhizoctonia solani, okra 9993
 - seed treatment, Sclerotium rolfsii, lentil 4523
 - Septoria humuli, hop 2743
 - soil, onion vesicular-arbuscular mycorrhiza/rhizosphere fungi 7975
 - tolerance, Macrophomina phaseoli, amino acids 2922
- ## Captan-80,
- Cercospora oryzae, rice 4486
 - Entyloma oryzae, rice 4486
 - Helminthosporium oryzae, rice 4486
 - Pycularia oryzae, rice 4486
 - Rhizoctonia oryzae, rice 4486
- ## Captan +HCB,
- seed treatment, Fusarium culmorum/Drechslera sorokiniana/Rhizoctonia solani, oat 1120 1120
- ## Caranda,
- Alternaria alternata 1044
- ## Caraway,
- pathogenic fungi 4366
 - seed, Aspergillus flavus 1838
- ## Carbadex,
- Treponema hyodysenteriae 495

Subject index

Carbamate,

- derivatives, fungicide 510 511
- derivatives, fungicide/microbiostat 9003
- derivatives, fungicide, plant protection 4504
- dithio-, *Helminthosporium oryzae*, rice 7972
- N-methyl-N-alkoxycarbonylsulphenyl-, derivatives, fungicide/bactericide, plant protection 3596
- quaternary ammonium, antifungal agent/antibacterial agent, oral hygiene 1535

Carbamic acid ester,

- antibacterial agent/antifungal agent 2143

Carbamic acid oxime ester,

- (N-trimethylthio)-, derivatives, bactericide/fungicide, plant protection 9987

Carbamide,

- quaternary ammonium, antifungal agent/antibacterial agent, oral hygiene 1535

Carbamoyl benzimidazole,

- derivatives, antifungal agent, seed treatment, plant protection 7988

Carbamoylpolyoxamic acid,

- polyoxins, *Streptomyces cacaoi* 10360

Carbamoyloxy-benzamide,

- derivatives, antibacterial agent/antifungal agent 4691

Carbanilide,

- derivatives, antibacterial agent 1219

Carbaryl,

- rice rhizosphere microorganisms 8916

Carbazole,

- derivatives, antibacterial agent 10162
- derivatives, antiviral agent 2128 8090

Carbendazim,

- antiviral agent, plant protection 2819
- Botrytis cinerea*, tomato 8804
- Ceratocystis paradoxa*, pineapple 8822
- Ceratocystis ulmi*, elm 6396
- Cercospora personata*, peanut 4516
- fungi, strawberry post-harvest decay 8760
- fungicide, plant protection 1101
- Lophodermium pinastri*, pine 1146
- Lophodermium pinastri*, Scots pine 1150
- Monilinia fructicola*, peach 399
- Pithomyces chartarum*, pasture 2004
- Pyricularia oryzae*, rice 5419
- resistance, *Colletotrichum coffeanum*, coffee 2921
- resistance, phytopathogenic fungi 376
- tolerance, *Sclerotinia fructicola*, peach 8798
- Venturia inaequalis*, apple, resistance 398

Carbenicillin,

- + amikacin 4794
- + amikacin, antibacterial agent 7382
- + amikacin, *Serratia marcescens* 4743
- + aminoglycoside antibiotic, *Pseudomonas aeruginosa* 1321
- + gentamicin 7383
- + gentamicin, antibacterial agent 7382 7383
- + gentamicin, *Pseudomonas aeruginosa* 6556
- + gentamicin, *Serratia marcescens* 4743
- + kanamycin/tobramycin/gentamicin, *Acinetobacter calcoaceticus* 9051
- + mecillinam, antibacterial agent 1366
- + netilmicin, antibacterial agent 1428
- + netilmicin, *Serratia marcescens* 4743
- + sisomicin, antibacterial agent 7382 7383
- + sisomicin, *Proteus* 7381
- + tobramycin, antibacterial agent 7382
- + tobramycin, *Pseudomonas* 7381
- amikacin 1297
- anaerobic bacteria 2994 7375 9038
- anaerobic bacterium 5673
- antibacterial agent 605 2178 2969 3752 4631 8113

Carbenicillin(Contd),

- antibacterial agent, antibiotic sensitivity testing 9035
- antibacterial agent, *Saprolegnia* 3026
- antibacterial agent, sensitivity test broth/urine 3009
- antibiotic mixture, microbiological assay 2990
- bacterial beta-lactamase, double disc method 3288
- Bacteroidaceae 10288
- Bacteroides fragilis* 2166
- Bacteroides melaninogenicus*, beta-lactamase 4640
- Bacteroides oralis*, beta-lactamase 4640
- bile system microflora 2995
- Citrobacter freundii*/*Citrobacter diversus* 7370
- Enterobacter aerogenes* 1214
- Enterobacter cloacae* 2993
- Enterobacteriaceae 6557
- Enterobacteriaceae, antibiotic sensitivity testing 4720
- Escherichia coli* 1214 1304 2993
- Escherichia coli* cephalosporinase 8156
- gentamicin 1297
- Haemophilus parainfluenzae* 8115
- hydroxypropyl methylcellulose artificial tear solution 4712
- Klebsiella pneumoniae* 1214 2993
- Klebsiella pneumoniae* cephalosporinase 8156
- minibag/minibottle antibiotic admixtures, stability 9030
- Neisseria meningitidis* 4724
- Proteus* 1304 2993
- Proteus mirabilis* 1214
- Proteus mirabilis* L-form DD-carboxypeptidase 4069
- Proteus morganii* cephalosporinase 8156
- Providencia* 2993
- Pseudomonas aeruginosa* 1214 1304 2926 2993 3749 4726 5674 6550 6556 6566 6657 10245
- Pseudomonas aeruginosa*, antibiotic sensitivity testing 4720 4116
- Pseudomonas aeruginosa* cephalosporinase 8156
- Pseudomonas aeruginosa* phagocytosis, rabbit polymorphonuclear leukocytes 2998
- Pseudomonas pseudomallei* 8117
- pyocin, *Pseudomonas aeruginosa* 8191
- resistance, *Escherichia coli* 6474
- resistance, *Escherichia coli*, beta-lactamase, R factor 8954
- resistance, *Escherichia coli*, R factor 8052
- resistance, *Klebsiella* 6474
- resistance, *Klebsiella*, R factor 8052
- resistance, *Pseudomonas aeruginosa*, beta-lactamase 7634
- resistance, *Pseudomonas aeruginosa*, plasmid 10123
- resistance, *Pseudomonas aeruginosa*, R factor 7306
- resistance, *Pseudomonas*, R factor 5528
- resistance, *Serratia marcescens* 4743
- resistance, *Serratia marcescens*, beta-lactamase 3674
- resistance, *Serratia marcescens*, R factor 8052
- resistance, *Yersinia pseudotuberculosis* 4638
- Salmonella enteritidis* 2993
- sensitivity testing, anaerobic bacteria 10232
- sensitivity testing, anaerobic bacteria, Wilkins-Chalgren medium 10229
- sensitivity testing, *Pseudomonas aeruginosa*, culture medium 6549
- Serratia marcescens* 2993
- sisomicin 1297
- Staphylococcus* 1304
- Staphylococcus aureus* 1214
- Streptococcus* 3751

Subject index

Carbenicillin(Contd),

Streptococcus faecalis 1214

tobramycin 1297

Carbenicillinase,

carbenicillin-resistant Pseudomonas

aeruginosa 7634

Carbinol,

derivatives, tuberculostat 492

Carbofuran,

Chaetocnema pulicaria, Erwinia stewartii,

corn 8783

degradation, soil fungi 10076

degradation, soil microorganisms 10C75

estuarine water bacteria 4885

soil microorganisms 454

Trichodorus, tobacco rattle virus, potato

7928

Carbohydrate,

assimilation, yeasts, auxanographic method

10611

fermentation, Neisseria, medium 4960

fermentation test, Neisseria 10579

Streptococcus cremoris, cheese 1735

waste, treatment, activated sludge microflora

6691

Carbohydrate test,

1545

Carbohydrate waste,

treatment, activated sludge, polysaccharide

6690

Carbomycin A,

leucomycin A3, maridomycin II, carbomycin B,

Streptomyces hygroscopicus 10331

Carbomycin B,

derivatives, niddamycin, antibacterial agent

4817

leucomycin A3, maridomycin II, carbomycin A,

Streptomyces hygroscopicus 10331

niddamycin, antibacterial agent 4817

Carbon,

activated, sludge pyrolysis 677

activated, wastewater treatment 3118

assay, compost 6754

assay, manure 6754

assay, microbial culture 6754

assay, soil 6754

powdered activated, + activated sludge, waste

treatment 10438

Carbon dioxide,

assay, bacterial mutant culture 2374

beer/wort 95

desorption, fermentation 9497

dough 191

fixation, soil microorganisms 10044

fungus spores, soda water 3895

meat preservation 8548

purging, cucumber brine fermentation, bloater

control 4249

Saccharomyces cerevisiae biomass 2419

Saccharomyces vini,

ATP/hexokinase/phosphofructokinase 8449

transport, microbial film 5820

waste composting 6688

Carbon dioxide snow,

prepacked fish preservation 4243

Carbon magnetic resonance spectroscopy,

spectinomycin, Streptomyces spectabilis 1440

Carbon-mercury linkage splitting catalyzing

enzyme,

Pseudomonas K-62 1643

Carbon monoxide,

meat preservation 8548

prepackaged beef, shelf-life 2613

Carbon substrate,

degradation, soil fungi 9522

fungus degradation 9521

Carbonanidoquinoxaline-di-N-oxide,

derivatives, antibacterial agent 1226

Carbonisation effluent,

activated sludge treatment 685

Carboxin,

fungicide, plant protection 6307

Fusarium oxysporum, wheat 2801

Hemileia vastatrix, coffee 5422

pyrazole derivatives, fungicide, plant

protection 6368

resistance, fungi 5001

Sclerotium rolfsii, peanut 9960

seed treatment, Fusarium culmorum/Drechslera

sorokiniana/Rhizoctonia solani, oat 1120

1120

seed treatment, Rhizoctonia solani, potato

2033

tolerance, Tilletia caries, wheat 7225

tolerance, Tilletia foetida, wheat 7225

Ustilago nuda tritici, wheat 2006

Verticillium dahliae, brinjal 4489

Carboxyanilidofuran,

derivatives, fungicide, plant protection

7982

Carboxymethylcellulose medium,

microbial cellulase 3948

Carboxymethylloxysuccinate,

degradation, sewage sludge bacteria 5187

Carboxypeptidase,

Penicillium roqueforti 9367

yeast, phosphofructokinase 4104

yeast, proteinase 4104

DB-Carboxypeptidase,

Proteus mirabilis L-form 4069

Pseudomonas aeruginosa cytoplasmic membrane

6821

Pseudomonas aeruginosa outer membrane 6821

Carboxypeptidase A,

ochratoxin B assay, ochratoxin A + ochratoxin

A 8569

Carboxypeptidase 6,

Pseudomonas, substrate elution chromatography

4070

Carboxypeptidase-like enzyme,

Streptomyces griseus, pronase, affinity

chromatography 50

5-Carboxyuracil,

polyoxins/octosyl acid, Streptomyces cacaoi

3075

Carcase meal,

Salmonella 9622

Carcinogen,

assay, Escherichia coli 6774

Escherichia coli prophage induction test

6775

Cardamon,

Corynebacterium, penicillin 8831

large, fungi 4224

wheat streak mosaic virus 2732

Cardenolide,

hydroxylation, Aspergillus ochraceus 5104

hydroxylation, Cunninghamella blakesleeana

5104

hydroxylation, Curvularia lunata 5104

Cardicin,

yeasts 2170

Carica papaya,

Fusarium solani 8665

Gloeosporium papayae post-harvest decay,

pectic enzymes, cellulolytic enzymes 6323

Macrophomina phaseolina 2725

Macrophomina phaseolina, fungicide 2802

papaya distortion virus 5359

papaya mosaic virus 1904 3496

Phytophthora palmivora, fungicide 8666

Phytophthora palmivora post-harvest decay,

fungicide 8666

post-harvest decay, fungicide 2772

post-harvest decay, gamma-irradiation 4442

virus 2657

virus-infected, Fusarium chlamydosporum 9838

Carici elongatae,

soil, macronutrients, litter microorganisms

7994

Subject index

- Caries,**
see Dental caries
- Cariogenan,**
Streptococcus mutans, dental plaque,
microbial cariogenase 4058
- Cariogenase,**
microbial, dental plaque 4058
- Carissa carandas,**
Alternaria alternata 1044
- Carissa congesta,**
Pestalotia 1003
- Carissa grandiflora,**
Sphaeropsis tumefaciens 5380
- Carlavirus,**
garlic 6245
onion 6248
- Carminomycin,**
2256
+ ultraviolet radiation/mitomycin C,
bactericide 5747
Actinomadura carminata 9131 10352
Actinomadura carminata, ultraviolet radiation
5725
Actinomyces carminata 10361
Fisher lymphadenosis, rubomycin resistance
9120
Staphylococcus aureus, rubomycin resistance
9120
- Carminomycinone,**
2256
7-oxo- 2256
glycosylation, Actinomyces coeruleorubidus
8419
- Carnation,**
carnation necrotic fleck virus/carnation
yellow fleck virus 5367
carnation streak virus 1914
Fusarium oxysporum, benomyl 2022
Fusarium poae + mite 1916
Phialophora cinerescens 9854
resistance, Phialophora cinerescens 1986
9854
Verticillium cinerescens, benomyl 2022
Zytophiala jamaicensis 8598
- Carnation latent virus,**
antiviral agent, plant protection 9984
- Carnation mottle virus,**
sodium dodecyl sulphate 2397
- Carnation necrotic fleck virus,**
carnation 5367
- Carnation ringspot virus,**
sodium dodecyl sulphate 2397
- Carnation streak virus,**
carnation 1914
- Carnation vein mottle virus,**
Dianthus barbatus 1915
Silene armeria 1915
- Carnation yellow fleck virus,**
carnation 5367
- Carnivore distemper virus vaccine,**
10429
- Carob bean,**
flour, microbiology 3405
- Caroten-20-al,**
Rhodospseudomonas viridis 4132
- Carotene,**
dimethyl-beta,gamma- 9468
dimethyl-gamma,gamma- 9468
Rhizobium lipini 6943
- beta-Carotenene,**
Rhodospseudomonas diobovatum 5131
- Carotenoid,**
9468
methoxyspheroidene, Rhodospseudomonas
spheroides 7679
methoxyspheroidenone, Rhodospseudomonas
spheroides 7679
Rhizobium lupini 6943
Rhodospseudomonas viridis photochemical
reaction centre 6944
- Carotenoid(Contd),**
Rhodospseudomonas diobovatum 5131
Sarcina lutea, structure 9469
yeast, peat hydrolysate medium 2434
zeaxanthin dirhamnoside, Corynebacterium
autotrophicum 4130
zeaxanthin, Flavobacter 73 74
- Carotenoid aldehyde,**
Rhodospseudomonas viridis 4132
- Carpet,**
hospital, bacteria 8247
hospital, bactericide 8248
- Carpinus betulus,**
wood degradation, forest soil 6401
- Carpocapsa pomonella,**
cell culture, amphotericin B/amphotericin B
methyl ester 10325
- Carrot,**
Agrobacterium tumefaciens 1917
Alternaria dauci 9855
Botrytis cinerea post-harvest decay 4434
6319 6816 9911 9912
carrot motley dwarf virus 6257 8684
carrot thin leaf virus 6257 8684
celery mosaic virus 3499
Centrosepora acerina post-harvest decay 4435
Erwinia carotovora/Erwinia chrysanthemi 1051
Erwinia chrysanthemi/Erwinia carotovora 310
Erysiphe heraclei 1002 7906 7907
Erysiphe polygoni 4376 4377
Erysiphe umbelliferarum 1911
post-harvest decay, gamma-irradiation 1966
Pythium 3505
Pythium sulcatum, Olpidium brassicae, tobacco
necrosis virus, Pythium root dieback 8685
Sclerotium rolfsii 7142
Thielaviopsis basicola, colo treatment 9949
- Carrot juice,**
nitrite, nitrite-producing bacterium 7777
- Carrot motley dwarf virus,**
carrot 6257 8684
- Carrot thin leaf virus,**
carrot 6257 8684
- Cartap,**
cartap, rice dwarf disease virus, rice 7962
- Carthamus tinctoria,**
Fusarium oxysporum, mangiferin seed treatment
7992
- Carthamus tinctorius,**
Alternaria carthami 6295
Cercospora carthami 305
Phytophthora cryptogea 7170 9887
Phytophthora drechsleri 8726
Puccinia carthami 7934 9888 9889
Ramularia carthami 305
resistance, Phytophthora drechsleri 8726
seed mycoflora, seed treatment fungicide
8638
seeds, Fusarium oxysporum,
12,13-epoxytrichothecene/T-2
toxin/diacetoxyscirpenol 7839
- Carum carvi,**
pathogenic fungi 4366
- Carum copticum,**
antibacterial agent/antifungal agent 6523
- Carya illinoensis,**
Aspergillus flavus, aflatoxin 4261
Aspergillus parasiticus, aflatoxin 4261
bunch disease, mycoplasma-like organism 8670
Fusicladium effusum, benomyl 4519
nut, aflatoxins, fluorescence 5275
weevil-damaged nuts, Penicillium
lanoso-coeruleum, penitrem A, toxin 9719
- Carzinophillin,**
DNA 9458
- Casamino acids,**
culture medium, Bacteroides melaninogenicus
4942
- Casaurina equisetifolia,**
Fomes durissimus, culture 2042

Subject index

- Casein,**
Bacillus polymyxa milk-clotting enzyme 923
Endothia parasitica milk-clotting enzyme 923
 foot-and-mouth disease virus 9541
 hydrolysis, microorganisms, food 8470
 lactic, *Streptococcus cremoris* 7747
 microbial rennet 2573
Mucor miehei milk-clotting enzyme 923
Mucor pusillus milk-clotting enzyme 923
 stomacher, bacteriological assay 4926
- beta-Casein,**
 milk, *Endothia parasitica* protease 7001
 milk, *Mucor miehei* protease 7001
 milk, *Mucor pusillus* protease 7001
- Caseinate,**
 foot-and-mouth disease virus 9541
- Caseinolytic enzyme,**
Actinomyces spheroides, culture medium 44
Clostridium botulinum 6919
- Casparian strip,**
 corn, *Puccinia sorghi*, haustorial neckband 4300
 cowpea, *Uromyces phaseoli*, haustorial neckband 4300
- Cassava,**
Aspergillus fumigatus, protein, food 2564
Colletotrichum gloeosporioides 7908
Drehslera rostrata 4378
 fermentation, garri, microorganisms 8451
Didium manihotis 7909
Paecilomyces, protein, food 2564
Periconia manihoticola 6258
 post-harvest decay 6327
Sphaceloma 7909
Sporotrichum thermophile, protein, food 2564
- Cassia,**
 Indian, *Colletotrichum gloeosporioides* 3615
- Cassia fasciculata,**
 nodulation/nitrogen fixation 2878
- Cassia occidentalis,**
 abaca mosaic virus 5293
- Cassia sophora,**
 extracts, antifungal agent, plant protection 9956
- Castanea,**
Endothia parasitica, biological control 3617
Phytophthora cryptogea 3618
- Castor bean,**
 seed, *Aspergillus flavus* 1838
- Cat,**
 diseases 4027
 feline leukaemia virus vaccine 3837
- Catalase,**
Aspergillus niger, immobilisation 7612
Bacteroides distasonis 5044
Candida albicans 5914
Candida tropicalis, alkane 5521
Candida tropicalis, alkane oxidation 8941
 culture medium, *Clostridium* 7552
 culture medium, *Clostridium perfringens* 2376
Escherichia coli, hydrogen peroxide 2934
 immobilisation, microorganisms 2
Penicillium vitale 828
Rhodospseudomonas spheroides 5923
Saccharomyces cerevisiae 4071
 selective medium, microorganisms 3947
 selective medium, stressed *Staphylococcus aureus* 8287
- Catamine,**
 Vega disinfectant, bactericide/fungicide 9232
- Catechol,**
Corynebacterium glutamicum 5146 5147
 degradation, *Rhizobium* 6021
- Catechol 1,2-dioxygenase,**
Acinetobacter calcoaceticus 18
Acinetobacter calcoaceticus, 3-methylcatechol 5924
Alcaligenes eutrophes, 3-methylcatechol 5924
- Catechol 1,2-dioxygenase(Contd),**
Arthrobacter crystallopoietes, 4
 3-methylcatechol 5924
Arthrobacter poescens, 3-methylcatechol 5924
Brevibacterium flavum, 3-methylcatechol 5924
Nocardia opaca, 3-methylcatechol 5924
Pseudomonas aeruginosa, 3-methylcatechol 5924
Pseudomonas oleovorans, 3-methylcatechol 5924
- Catecholase,**
 Polyporus versicolor 6867
- Catenophora pruni,**
 stone fruit trees 9817
- Caterpillar,**
 insecticide, *Erwinia* 891
 insecticide, *Pseudomonas* 891
- Catfish,**
 bacteriology 167 7774
 frozen, microorganisms 9585
- Catharanthus roseus,**
 mycoplasma-like organisms, electron microscopy 4387
Phytophthora parasitica 8714
- Catheter,**
 endo-tracheal, sterilisation 5603
- Cattle,**
Brucella abortus, milk ring test 771
 enteric colibacillosis, *Escherichia coli* vaccine 7461
Escherichia coli vaccine 6667
 feed, bacterial protein, mesquite 197 822
 feed, chloramphenicol 7C39
 feed, colostrum 7034
 feed, colostrum, fermentation 7035
 feed, colostrum, preservation 9649
 feed, corn + poultry litter silage 9637
 feed, corn silage 9636
 feed, *Cytophaga johnsonae* protein, mesquite 196
 feed, fermented colostrum/preserved colostrum 7036
 feed, fermented mastitic milk, antibiotics 4229
 feed, mouldy grain 3415
 feed, peanut cake, fungi/mycotoxins 2773
 feed, *Pleurotus ostreatus* protein, lignocellulosic waste degradation 1C448
 feed, potato silage 5641
 feed, propionic acid-preserved corn 209
 feed, silage 1775 6110 6111 6112 6113 6114 6115 779C 9647
 feed, tomato pulp waste silage 6104
 feed, wheat silage 9639
 hygiene 3146
 hygiene, mastitis 1523
 liquid manure, treatment 10443
 manure, microbial protein, animal feed 9615
 mastitis, azetidinone derivatives 3687
 mastitis, cephalosporins 3C16
 mastitis, chlorhexidine/iodophor/quaternary ammonium compound/hypochlorite teat dip 3922
 mastitis, milk 1724
 mastitis, milking machine 734
 mastitis, penicillin derivatives 3037 3038
 mastitis, teat dip 736
Mycoplasma agalactiae, teat dip/sanitizer 735
Pasteurella,
 3-(1-methyl-5-nitro-2-imidazolyl-methylidene amino)-2-oxazolidinone 2114
 rumen, ATP 2599
 rumen bacteria, *Clostridium botulinum* toxin degradation 3445
Salmonella cholerae-suis vaccine 6667
Salmonella dublin vaccine 6667
Salmonella, meat hygiene 7525
Salmonella typhimurium vaccine 10432
 slurry, *Salmonella dublin* 8230

Subject index

- Cattle(Contd),**
 stable, air, bacteria 1519
 teat dip, disinfectant 1522
 udder hygiene, mastitis, milk plant 3923
 waste, methane 6459
- Cattle breeding unit,**
 waste treatment 6706
- Cattle feed,**
 Pseudomonas protein, wood mesquite 4227
- Cattle house,**
 formaldehyde disinfection 10434
- Cattle industry,**
 hygiene 1520
- Cattle slurry,**
 Salmonella 2308
 surface aeration, hygiene 6705
- Cattle stall,**
 bacteria 2290
- Cattleysa,**
 Cymbidium mosaic virus 6281
- Cauliflower,**
 broccoli necrotic yellows virus 5366
 curd rot, antibiotics 402
 Plasmodiophora brassicae,
 pentachloronitrobenzene + hydrated Lime
 2811
 radish mosaic virus 6254
 resistance, Plasmodiophora brassicae 4460
 Rhizoctonia solani, fungicide 1103
 Sclerotinia sclerotiorum, benomyl 306
- Cauliflower mosaic virus,**
 radish 6291
 turnip 7944
- Cavariella aegopodii,**
 parsnip yellow fleck virus, anthriscus
 yellow virus 1832 1833
- Cavitation,**
 ultrasonic, disintegration, microorganisms
 8268
- Cecidophyopsis ribis,**
 blackcurrant reversion virus, blackcurrant
 3503
- Cedar,**
 Phytophthora lateralis, soil 5447
 Port-Orford, Phytophthora lateralis 3606
 western red, Phellinus weirii 1124
- Cedar-apple rust,**
 Gymnosporangium juniperi-virginianae, apple,
 resistance 6338
 Gymnosporium juniperi virginiana, crabapple,
 resistance 3553
- Cefacetrile,**
 antibacterial agent 2969
- Cefaclor,**
 antibacterial agent 6578, 9059, 10272
- Cefadroxil,**
 antibacterial agent 5651 9059
 antibacterial agent, cephalixin 10270
- Cefamandole,**
 + erythromycin, Bacteroides fragilis 8129
 + mecillinam, antibacterial agent 1366
 anaerobic bacteria 2994
 antibacterial agent 1324 1325 2194 3761
 3772 9059 9061 10269 10276
 antibiotic sensitivity testing, anaerobiosis
 6547
 Clostridium perfringens 7371
 Enterobacter 1325
 Enterobacteriaceae 6557
 Escherichia coli 587 1325
 Haemophilus influenzae 1325
 Klebsiella 1325
 Proteus 1325
 Proteus mirabilis 1325
 Pseudomonas aeruginosa 1325
 Salmonella 9043
- Cefamandole(Contd),**
 Salmonella typhi 5652
 Serratia 1325
 Staphylococcus aureus 1325 9063
 Staphylococcus aureus/Enterobacter cloacae
 beta-lactamase 1323
 Staphylococcus aureus/beta-lactamase
 resistance 1326
 Streptococcus 1325
 Streptococcus faecalis 1325
- Cefamandole nafate,**
 antibacterial agent 10276
 polarography 8134
- Cefatrizine,**
 antibacterial agent 588 1324 2194 9059 10269
 Haemophilus influenzae 558
- Cefazafur,**
 anaerobic bacteria 2994
 antibacterial agent 2194 7401 9059
- Cefazolin,**
 1331 9501
 + amikacin 4794
 + amikacin, Klebsiella 3756
 + netilmicin, antibacterial agent 1428
 + protein 3771
 + sisomicin, antibacterial agent 7382
 + sisomicin, Klebsiella 7381
 anaerobic bacteria 8135
 antibacterial agent 1324 2177 2194 2195 2969
 3761 3773 10268 10269
 antibacterial agent, sensitivity test
 broth/urine 3009
 antibiotic sensitivity testing, anaerobiosis
 6547
 assay, high-pressure liquid chromatography
 5653
 bacterial beta-lactamase, double disc method
 3288
 Bacteroides fragilis 2166
 cephalosporins 587
 Citrobacter freundii/Citrobacter diversus
 7370
 Clostridium perfringens 7371
 demethyl-, Escherichia coli 1333
 Enterobacter 7402
 Escherichia coli 2196
 human serum 10274
 Klebsiella 7402
 melanin 1303
 minibag/minibottle antibiotic admixtures,
 stability 9030
 resistance, Enterobacter 7402
 resistance, Klebsiella 7402
 sensitivity testing, anaerobic bacteria
 10232
 stability, aqueous solutions 4753
 Staphylococcus aureus/beta-lactamase
 resistance 1326
- Cefoxitin,**
 3763
 anaerobic bacteria 2994 7375 8135
 antibacterial agent 1325 2194 3761 3773 9059
 9061 10269
 antibiotic-resistant Klebsiella pneumoniae
 5655
 Bacteroidaceae 10273
 Bacteroides fragilis, cephalosporinase 7403
 cephalosporins 587
 cephalothin-resistant Enterobacteriaceae
 10275
 Clostridium perfringens 7371
 Enterobacter 1325
 Enterobacteriaceae 6557
 Escherichia coli 1325 5656
 Haemophilus influenzae 1325
 Klebsiella 1325 5656
 Propionibacterium acnes 5630
 Proteus 1325
 Proteus mirabilis 1325 1332
 Proteus morgani 1332

Subject Index

Cefoxitin(Contd),

- Proteus rettgeri 1201
- Proteus vulgaris 1332 5656
- Pseudomonas aeruginosa 1325
- resistance, Klebsiella pneumoniae 1202
- resistance, Staphylococcus aureus 1202
- sensitivity testing, anaerobic bacteria 10232
- Serratia 1225
- Staphylococcus aureus 1325 9063
- Staphylococcus aureus/Enterobacter cloacae beta-lactamase 1323
- Staphylococcus aureus/beta-lactamase resistance 1326
- Streptococcus 1325
- Streptococcus faecalis 1325

Ceftazol,

- Escherichia coli 1333

- antibacterial agent 5654

Cefuroxime,

- antibacterial agent 2194 9059 9061 10277
- Escherichia coli 587 5656
- Haemophilus influenzae 7378 8114
- Klebsiella 5656
- Proteus vulgaris 5656

Ceiba pentandra,

- Colletotrichum gloeosporioides 6274

Celery,

- aster yellows, leafhopper 7910
- celery mosaic virus 3499
- Erwinia carotovora 6259
- Erwinia carotovora, cupric hydroxide 6259
- Mycocentrospora acerina 5368
- Mycocentrospora acerina post-harvest decay 5368
- Pythium polymorphon + nematode 1918 7911
- Septoria, cupric hydroxide 6259

Celery mosaic virus,

- carrot 3499
- celery 3499
- parsley 3499
- parsnip 3499

Celery pine,

- Caecoma peltatum 4531

Cell,

- culture, Sendai virus 4013
- disintegration, decompression 5822
- mammalian, Corynebacterium diphtheriae exotoxin 5287 5288
- mammalian, Pseudomonas aeruginosa exotoxin 5287 5288

Cell concentration control,

- viscosity 6797

Cell count,

- somatic, electronic, milk 5207

Cell culture,

- see also Tissue culture 9311
- Bacillus subtilis, Heliothis armigera nuclear polyhedrosis virus 4994
- bovine leukocyte, foot-and-mouth disease virus 4006
- bovine, mucosal disease virus, quality control 8109
- buffalo embryo, Newcastle disease virus, vaccine 9301
- chick embryo chorioallantoic membrane, Chlamydia psittaci 8298
- chick embryo fibroblast, HEPES buffer, CEL0 virus 4989
- chick embryo fibroblast, HEPES buffer, Marek's disease virus 4989
- chick embryo fibroblast, HEPES buffer, Newcastle disease virus 4989
- chick embryo fibroblast, HEPES buffer, turkey herpesvirus 4989
- chick kidney, HEPES buffer, CEL0 virus 4989
- chick kidney, HEPES buffer, Marek's disease virus 4989

Cell culture(Contd),

- chick kidney, HEPES buffer, Newcastle disease virus 4989
 - chick kidney, HEPES buffer, turkey herpesvirus 4989
 - Chlamydia, gentamicin 611
 - duck embryo fibroblast, HEPES buffer, CEL0 virus 4989
 - duck embryo fibroblast, HEPES buffer, Marek's disease virus 4989
 - duck embryo fibroblast, HEPES buffer, Newcastle disease virus 4989
 - duck embryo fibroblast, HEPES buffer, turkey herpesvirus 4989
 - fall armyworm, Autographa californica nuclear polyhedrosis virus 4010
 - fish viruses 5867
 - HeLa, vaccinia virus cytotoxin 5282
 - human M6-63, interferon 10179
 - human, mycotoxins 5260
 - influenza virus 10632 10633
 - insect, amphotericin B/amphotericin B methyl ester 10325
 - insect, viruses 4009
 - macrophage, Mycobacterium leprae 3181
 - microrespirometer chamber 1602
 - mouse footpad, Mycobacterium leprae 3984 7568
 - multisurface glass roller bottle 6802
 - Mycobacterium leprae 3985
 - Mycobacterium lepraemurium 3982 3985
 - Mycoplasma, fluorescent Hoechst 33258 stain 6800
 - persistent infection, antiviral agent 3711
 - rabbit cornea, aflatoxin B1 assay 2627
 - rabbit cornea, rubratoxin B assay 2627
 - Rickettsia, gentamicin 611
 - Saccharomyces cerevisiae, Heliothis armigera nuclear polyhedrosis virus 4994
 - Treponema pallidum 3195 4002
 - Trichoplusia ni, Autographa californica nuclear polyhedrosis virus 4011
 - vaccinia virus 10640
 - varicella-zoster virus 793
 - Vero, Escherichia coli enterotoxin assay 7089
 - virus, gentamicin 611
 - virus vaccines 655 1446 1605
 - viruses 1605
- ## Cell cycle fractionation,
- continuous-flow 6794
- ## Cell envelope,
- bacterial, ultracyotomy, electron microscopy 10537
- ## Cell line,
- African green monkey kidney BGM,
 - adenovirus/echovirus 790
 - fish viruses 5867
 - foetal pig kidney, foot-and-mouth disease virus 4992
 - MVPK-1 foetal porcine kidney, foot-and-mouth disease virus 6804
 - preservation 1288
- ## Cell membrane,
- bacteria, antibiotics resistance 7295
 - enzymatically-active protein, microbial 5912
 - Pseudomonas aeruginosa 6821
 - yeast, deproteination 6823
- ## Cell wall,
- Bacillus subtilis 8306
 - lyophilised, Bacillus megaterium 5016
 - lyophilised, Saccharomyces cerevisiae 5016
 - plant, degradation, Penicillium citreo-viride enzyme 6852
 - plant, Fusarium oxysporum polygalacturonase 5969
 - plant, Verticillium albo-atrum polygalacturonase 5969
 - polysaccharide, yeast, alkane, calf feed 6097

Subject index

Cell wall(Contd),

- Rhizopus, lysis, *Pacillus protease* 5972
- Rhizopus, *Streptomyces orientalis* chitinase 6881
- Salmonella enteritidis*, fatty acid, stable gas-liquid chromatography column 6787
- yeast, *Thermactinomyces vulgaris* lytic enzyme 32

Cell wall-lysing enzyme complex,

- Pellicularia sasakii*/*Pellicularia filamentosa* 4072

Cellobiase,

- Colletotrichum coccodes*, tomato 6309
- Trichoderma viride* 5054

Cellulobiose,

- Candida utilis* 9443
- cellulose hydrolysis, *Trichoderma viride* beta-1,4-glucan cellulobiohydrolase 9395
- fermentation, *Clostridium thermocellum* 6014
- fermentation, *Clostridium thermocellum* + *Methanobacterium thermoautotrophicum* 6014
- hydrolysis, *Trichoderma viride* cellobiase 5054

Cellulase,

- Aeromonas* 9368
- Alternaria*, paint film degradation 4177
- Alternaria solani*, plant growth regulator 3697
- Alternaria tenuis*, plant growth regulator 3697
- Aspergillus flavus* 7613
- Aspergillus niger* 7613 8356
- Aspergillus niger*, silage 9634
- Aspergillus niger*, waste cellulose, glucose 6876
- Aspergillus*, paint film degradation 4177
- Aspergillus sydowi* 6869
- Aspergillus tamarii*, cacao post-harvest decay 2766
- Aureobasidium pullulans*, paint film degradation 4177
- Cellulomonas* 9369
- Cellvibrio gilvus* 4073
- Cephalosporium sacchari*, sugarcane 4347
- Ceratocystis paradoxa* 5930
- Ceratocystis ulmi*, elm 3619
- Cercospora arachidicola* 6871
- Chaetomium cellulolyticum*, wheat straw 9347
- Chaetomium globosum* 7613
- Chaetomium herbarum* 7613
- Clostridium thermocellum*, cellulose/cellulobiose fermentation 6014
- Clostridium thermocellum* + *Methanobacterium thermoautotrophicum*, cellulose/cellulobiose fermentation 6014
- Collectotrichum coccodes*, tomato 6309
- endo-, *Verticillium dahliae*, plant disease 2666
- Erwinia carotovora*, squash 352
- Fomes annosus*, Norway spruce root constituents 2845
- fungi, fungicide adaptation, paper 4615
- fungi, paper degradation 2551
- fungi, rapid tube test 6868
- Fusarium coeruleum*, potato 8718
- Fusarium oxysporum*, potassium, melon wilt 7154 7922
- Fusarium solani*, cellulose 5927
- Fusarium solani*, cellulose degradation, sugar 5925
- Fusarium sulphureum*, potato 8718
- Geotrichum candidum*, beta-glucosidase 5055
- Geotrichum candidum*, sweet orange post-harvest decay 9919
- Gloeosporium papayae*, papaya post-harvest decay 6323
- Helminthosporium apattarnae*, inhibition 7614
- immobilization, microorganisms 2

Cellulase(Contd),

- Lasiodiplodia theobromae*, sweet potato post-harvest decay 353
- microbial 5926
- microbial, carboxymethylcellulose medium 3948
- microbial, cellulose 6020 6814
- microbial, cellulose waste, protein 5898
- microbial, cotton degradation 5189
- microbial, dynamic calorimetry 2543
- Myrothecium verrucariae* 7613
- Myxotrichum deflexum* 7613
- Neurospora crassa* 6870
- Pellicularia filamentosa* 9370
- Penicillium funiculosum*, cellulose 5927
- Penicillium funiculosum*, cellulose degradation, sugar 5925
- Penicillium purpurogenum* 7613
- Phytophthora cryptogea*, squash 352
- Pyricularia oryzae* 5931
- Rhizoctonia bataticola*, okra 1070
- Rhizoctonia lamellifera* 4074
- Sclerotinia sclerotiorum*, crucifer 3508
- Sporotrichum bombycinum* 7613
- Stachybotrys chartarum* 7613
- Thermoactinomyces celluloseae*, cellulose/lignocellulose degradation, protein 9345
- thermophilic fungi 9350
- Trichoderma* 9371
- Trichoderma koningii* 6872
- Trichoderma koningii*, cellulose 5927
- Trichoderma koningii*, cellulose degradation, sugar 5925
- Trichoderma lignorum* 8357
- Trichoderma lignorum*, culture medium 19
- Trichoderma pseudokoningii* 6872
- Trichoderma viride* 20 5056 5057 5926 5932 6873 6874 6875 7613 7615
- Trichoderma viride*, activated sludge 6878
- Trichoderma viride*, *Aspergillus niger*/*Aspergillus phoenicis* beta-glucosidase, cellulose, glucose 5068
- Trichoderma viride*, cellulose 5927
- Trichoderma viride*, cellulose continuous culture 6877
- Trichoderma viride*, cellulose degradation, glucose 8453
- Trichoderma viride*, cellulose degradation, sugar 5925
- Trichoderma viride*, cellulose, glucose 1644
- Trichoderma viride*, cellulose hydrolysis 3259
- Trichoderma viride*, cellulose, sugars 5928
- Trichoderma viride*, glucose, cellulose waste 62
- Trichoderma viride*, plate clearing assay 4075
- Trichoderma viride* + *Saccharomyces cerevisiae*/*Candida utilis* 3239
- Trichoderma viride*, silage 9634
- Trichoderma viride*, waste cellulose 2432 7616
- Trichoderma viride*, waste cellulose, sugars 5929 5933
- Trichoderma viride*, wheat straw 9347
- Trichosporon cutaneum* 7617
- Trichosporon pullulans* 7617
- Verticillium tenarum* 7613
- Cellulolytic enzyme,
- Aspergillus niger*, cellulose waste 1645
- Aspergillus sydowi* 6869
- fungi 10644
- Fusarium oxysporum*, potassium, melon 7922
- Fusarium oxysporum*, potassium, melon wilt 7154
- Gloeosporium papayae*, papaya post-harvest decay 6323
- Lasiodiplodia theobromae*, sweet potato post-harvest decay 353

Subject index

Cellulolytic enzyme(Contd),

- Myrothecium verrucaria, cellulose waste 1645
- Penicillium digitatum 4032
- Rhizoctonia lamellifera 4074
- rumen bacteria 5934
- Trichoderma viride, cellulose waste 1645

Cellulomonas,

- cellulase 9369
- cellulose dry matter digestibility 6095
- culture 8272
- protein, cellulose waste, animal protein 3242

Cellulomonas biazotea,

- cellulase, carboxymethylcellulose medium 3948

Cellulomonas flavigena,

- cellulase, carboxymethylcellulose medium 3948
- protein 8327

Cellulose,

- activated sludge, Trichoderma viride cellulase 6878
- alcohol, microorganisms 5881
- Aspergillus niger/Aspergillus phoenicis beta-glucosidase, Trichoderma viride cellulase, glucose 5C68
- carboxymethyl-, medium, microbial cellulase 3948
- Cellvibrio gilvus cellulase 4073
- cotton, degradation, microbial cellulase 5189
- degradation, Diplocia gossypina, animal feed 9610
- degradation, Gilmaniella humicola, soil 6429
- degradation, microbial 5881
- degradation, Micromonospora 8454
- degradation, Poria placenta, wood 10025
- degradation, rumen bacteria 5934
- degradation, Thermoactinomyces celluloseae, protein 9345
- degradation, Trichoderma viride cellobiase 5054
- degradation, Trichoderma viride cellulase, glucose 8453
- dry matter digestibility, ruminant feed 6095
- fermentation, Clostridium thermocellum 6014
- fermentation, Clostridium thermocellum + Methanobacterium thermoautotrophicum 6014
- fungal degradation 4170 9521
- fungal degradation, cellulose pulp 1707
- Fusarium solani cellulase 5927
- Fusarium solani cellulase, sugar 5925
- hydrolysis, Candida utilis, cellobiose 9443
- hydrolysis, Trichoderma viride cellulase 3259
- hydrolysis, Trichoderma viride beta-1,4-glucan cellobiohydrolase, cellobiose 9395
- microbial cellulase 6814
- microbial degradation 116 6020
- microbial degradation, ethanol 6013
- microbial degradation, methane 9348
- microbial protein 5881
- microfibrils, Acetobacter xylinum 8405 8406 8407
- Penicillium funiculosum cellulase 5927
- Penicillium funiculosum cellulase, sugar 5925
- soil, biological control, Fusarium oxysporum, pea 5412
- Trichoderma koningii cellulase 5927
- Trichoderma koningii cellulase, sugar 5925
- Trichoderma viride cellulase 5927
- Trichoderma viride cellulase, continuous culture 6877
- Trichoderma viride cellulase, glucose 1644
- Trichoderma viride cellulase, sugars 5925 5928
- waste, Aspergillus niger, cellulolytic enzymes 1645

Cellulose(Contd),

- waste, Aureobasidium pullulans, protein, food/animal feed 4054
- waste, glucose, Trichoderma viride 62
- waste, high-temperature steam pretreatment, Aspergillus niger cellulase, glucose 6876
- waste, hydrolysis, yeast biomass 6704
- waste, microbial degradation, methane 5188
- waste, microbial protein 6 5895
- waste, microbial protein, animal feed 3242
- waste, Myrothecium verrucaria, cellulolytic enzymes 1645
- waste, Saccharomyces cerevisiae, ethanol/protein 2544
- waste, Trichoderma viride cellulase 7615
- waste, Trichoderma viride cellulase, sugars 5929 5933
- waste, Trichoderma viride, cellulolytic enzymes 1645
- waste, Trichoderma viride enzyme, yeast/ethanol/electrical power 2432
- wood, fungal degradation 6402

Cellulose-decomposing enzyme,

- fungal, cellulose pulp 1707

Cellulose pulp,

- fungi 1707

Cellulose waste,

- Torulopsis utilis culture 5862

Cellvibrio gilvus,

- cellulase 4073

CELO virus,

- avian cell culture, HEPES buffer 4989

Celosia cristata,

- Fusarium lateritium 311

Celsia arcturus,

- broad bean wilt virus 7104

Celtis,

- resistance, Lenzites trabea 420

Cenangium ferruginosum,

- Austrian pine 9998

Cenococcum graniforme,

- American beech 3599
- ectomycorrhiza, forest tree 2828
- loblolly pine 8841
- loblolly pine, soil fertilisation 8842
- soil, Pg pigment 7259

Centrifugal extractor,

- erythromycin 4775

Centrifugation,

- continuous-flow ultra-, influenza virus 3205
 - continuous-flow ultra-, mumps virus 3205
 - continuous-flow ultra-, Newcastle disease virus 3205
 - continuous-flow ultra-, Semliki Forest virus 3206
 - continuous-flow ultra-, Vaccinia virus 3206
 - equilibrium sucrose density, Dictyostelium discoideum plasma membrane, purification 5C18
 - fractionated, soil bacteria/fungi 8867
 - isopycnic + velocity sedimentation, AKR murine leukaemia virus 1612
 - isopycnic + velocity sedimentation, Rauscher virus 1612
 - polyethylene glycol-sodium chloride, vegetable marrow mosaic virus 4014
 - Renografin density gradient, Rickettsia prowazekii 5865
 - Renografin density gradient, Rickettsia typhi 5865
 - sodium iodide density gradient, herpes simplex virus DNA 2522
 - zonal, hepatitis virus, containment system, air hygiene 2288
 - zonal, vaccinia virus 10641
- ## Centrifuge,
- RK-, influenza virus 3205
 - RK-, mumps virus 3205
 - RK-, Newcastle disease virus 3205
 - RK-, Semliki Forest virus 3206

Subject index

Centrifuge(Contd),

- RK-, vaccinia virus 3206
- velocity gradient, bacterial distribution 7537

Centrosema pubescens,

- Phakopsora pachyrhizi 6201

Centrospora acerina,

- carrot post-harvest decay 4435
- pansy 7159

Cephacetrile,

- + amikacin/gentamicin/sisomicin/tobramycin, antibacterial agent 6555
- antibacterial agent 2177 3761 6577 10269
- bacterial beta-lactamase 7542
- Enterobacteriaceae 6557

Cephacetyl,

- antibacterial agent 9060

Cephalexin,

- 577 1330
- anaerobic bacteria 3010
- antibacterial agent 588 1324 2178 2194 2195 3761 6578 9060 10268 10269 10271
- antibacterial agent, cefadroxil 10270
- assay, fluorometry 6552
- bacterial enzymes 8136
- bacterial beta-lactamase, double disc method 3288
- bacteriolytic agent 4754
- Bacteroides fragilis 2166
- cephalosporins 587
- Clostridium perfringens 7371
- Enterobacteriaceae 6557
- Escherichia coli 555
- fluorometric assay 7390
- lysine salt, antibacterial agent 6571
- Propionibacterium acnes 5630
- reverse phase high-performance liquid chromatography 10285
- serum albumin 8133
- spectrophotometry 9058
- stability, aqueous solutions 4753
- Staphylococcus aureus 9063
- Staphylococcus aureus penicillinase 7372

Cephalophora,

- bottle gourd seed, seed treatment fungicide 8682
- cotton seed 2737

Cephaloglycin,

- resistance, Yersinia pseudotuberculosis 4638
- stability, aqueous solutions 4753
- Staphylococcus aureus/Enterobacter cloacae beta-lactamase 1323

Cephaloglycine,

- antibacterial agent 3761

Cephalonium,

- veterinary topical product, antibacterial agent/antifungal agent 2970

Cephaloridine,

- + 2-isopropoxynaphth-1-yl penicillin, antibacterial agent 556 557
- + dicloxacillin, antibacterial agent 7374
- + protein 3771
- alpha-haemolytic Streptococcus 4728
- antibacterial agent 2177 2178 2194 2195 3761 9060 10268 10269
- assay, Staphylococcus aureus ATP-firefly luminescence 10225
- bacterial beta-lactamase, double disc method 3288
- bile system microflora 2995
- cephalosporins 587
- Citrobacter freundii/Citrobacter diversus 7370
- Clostridium histolyticum 9039
- Clostridium perfringens 5628 7371
- Enterobacter aerogenes 1214
- Enterobacteriaceae 6557
- Escherichia coli 555 1214 1304
- Escherichia coli amino acid transport 9062
- Escherichia coli, clavulanic acid 8178

Cephaloridine(Contd),

- Escherichia coli, electron microscopy 4722
 - hydroxypropyl methylcellulose artificial tear solution 4712
 - isostere, antibacterial agent 3035
 - Klebsiella aerogenes, clavulanic acid 8178
 - Klebsiella pneumoniae 1214
 - Neisseria meningitidis 4724
 - Proteus 1304
 - Proteus mirabilis 1214
 - Proteus mirabilis, clavulanic acid 8178
 - Pseudomonas aeruginosa 1214 1304
 - Pseudomonas pseudomallei 8117
 - resistance, Escherichia coli 8050
 - serum albumin 8133
 - spectrophotometry 9058
 - stability, aqueous solutions 4753
 - Staphylococcus 1304
 - Staphylococcus aureus 1214 2169
 - Staphylococcus aureus, clavulanic acid 8178
 - Staphylococcus aureus/Enterobacter cloacae beta-lactamase 1323
 - Staphylococcus aureus penicillinase 7372
 - Streptococcus faecalis 1214
 - vitamins/nicotinamide/p-aminobenzoic acid 2991
 - Yersinia enterocolitica 4730
- ## Cephalosporanate,
- 7-hydrazono-, derivatives 8146
- ## Cephalosporanic acid,
- 7-amino- 3012
 - 7-amino-3-desacetoxy- 7397
 - 7-amino-, derivatives, microbial deacylation 2207
 - 7-amino-, immobilised Bacillus subtilis cephalosporin acylesterase 829
 - 7-amino-, stability, aqueous solutions 4753
 - 7-aminodesacetoxy-, stability, aqueous solutions 4753
 - 7-aminodesacetoxy- 4756
 - 7-beta-aminodesacetoxy-, Bacillus licheniformis penicillinase 10249
 - 7-phenoxyacetamidodesacetoxy-, assay 8138
 - 7-phenylacetamidodesacetoxy-, hydrolysis, Escherichia coli penicillin amidase 5984
 - 7-phenylacetamidodesacetoxy- 2193
 - derivative ester, antibacterial agent 575
 - derivatives, antibacterial agent 554
 - (dimethyl-2,2-oxo-5-phenyl-4-imidazolidinyl-1)-7-desacetyl-, structure 6576
- ## Cephalosporin,
- 7-deamino-, derivatives 583
 - 7-oxo-, derivatives, antibacterial agent 8141
 - 7alpha-methoxy-, derivatives 4737
 - 7beta-isocyano-, derivatives 7373
 - binding proteins, Escherichia coli 6847
 - analogue, antibacterial agent 8122 10278
 - analogues 10250
 - Anixiopsis 6568
 - Arachnomyces 6568
 - aza-, antibacterial agent 553
 - carbocyclic analogues, antibacterial agent 5658
 - Cephalosporium 6568
 - Cephalosporium acremonium 6568
 - Cephalosporium chrysogenum 6568
 - deacetoxy-, penicillin sulphoxide 577
 - derivative 585
 - derivative, antibacterial agent 1328 1329 2187 4758 7398 9064
 - derivative, antibacterial agent, beta-lactamase 581 582
 - derivative, Bacteroides melaninogenicus, beta-lactamase 4640
 - derivative, Bacteroides oralis, beta-lactamase 4640
 - derivative, crystalline, antibacterial agent 4757
 - derivative FR10024, antibacterial agent 5661

Subject index

Cephalosporin(Contd),
derivatives 569 578 1318 3764 4734 5663 6588
10251 10281
derivatives,
7-amino-3-desacetoxycephalosporanic acid
7397
derivatives, antibacterial agent 570 571 573
574 1311 1312 1313 1316 1334 1335 1336 1337
1338 1339 1340 1341 1342 1343 1344 1345
2198 2208 2209 2210 2211 2212 2213 2214
2215 3004 3014 3015 3017 3018 3019 3020
3021 3768 3769 4759 5638 5660 5664 5665 6554
6569 6570 6571 6572 6574 7392 7393 7394
7395 7396 8125 8139 8140 8142 8143 8144
9048 9068 9069 9070 10279 10280
derivatives, antibacterial agent/animal feed
1314 1315 9071
derivatives, antibacterial agent/animal
feed/disinfectant 3006 3007 8124
derivatives, fungal esterase 7400
derivatives, microbial penicillin acylase,
antibacterial agent 9065
derivatives, penicillins 8123
derivatives, + protein 3771
derivatives, + protein, assay 3770
derivatives, triphenylmethyl 7391
desacetoxy-, penicillin sulphoxide 1317
Emericellopsis 6568
Escherichia coli 7368
Escherichia coli, cephalosporin,
cephalosporin-binding proteins 6847
esters, antibacterial agent 3008
fluorinated derivatives, antibacterial agent
572
Klebsiella 7368
p-nitrobenzyl ester, de-esterification,
Bacillus esterase 6573
Paecilomyces 6568
phenylglycyl derivatives, antibacterial agent
576 9066 9067
Proteus 7368
Pseudomonas aeruginosa 7368
R-sulphoxides, antibacterial agent 4736 5637
resistance, Enterobacter aerogenes,
cephalosporinase 9372
Spiridium 6568
SQ 67,590, antibacterial agent 5662
Staphylococcus 7368
Streptococcus 7368
Streptococcus group D 7368
sulphoxides 586
Cephalosporin acetylsterase,
Bacillus subtilis, immobilisation,
7-aminocephalosporanic acid 829
Cephalosporin antibiotic SK & F 59962,
Staphylococcus aureus/beta-lactamase
resistance 1326
Cephalosporin-binding protein,
Escherichia coli 5034
Cephalosporin BL-5786,
cephalothin-resistant Enterobacteriaceae
10275
Cephalosporin BL-5786,
antibacterial agent 1327
Cephalosporin C,
566 3012 5648 5649 8267
Cephalosporium acremonium 3762 5648 9055
Cephalosporium acremonium, high performance
liquid chromatography 5650
deacetoxy-, microorganisms 10282
deacetoxy-, paraffins 4750
deacetyl-, Cephalosporium 567
deacetyl-, paraffins 4750
microbial esterase 8132
Paecilomyces carneus, paraffins 4750
Paecilomyces persicus, paraffins 4749
Penicillium chrysogenum, light 4732
Cephalosporin derivatives,
antibacterial agent 9072 9073
Cephalosporin Lactone,
7-deamido- 3774
penicillin 3775
Cephalosporinase,
Bacteroides fragilis, cefoxitin 7403
carbenicillin-resistant Pseudomonas
aeruginosa 7634
Enterobacter aerogenes 9372
Escherichia coli 8358
Escherichia coli, carbenicillin 8156
Klebsiella pneumoniae, carbenicillin 8156
Proteus morganii 6879
Proteus morganii, carbenicillin 8156
Pseudomonas aeruginosa 6880
Pseudomonas aeruginosa, carbenicillin 8156
Serratia marcescens,
penicillins/cephalosporins resistance 3674
Cephalosporins,
566 580 2192 3013 3035 4733 4735 5648 10221
3-methylenecephal sulphoxides, penicillin
sulphoxide 2176
7-alkylthioacetamido-, antibacterial agent
2159
7 alpha-methyl- 584
7alpha-methoxy-7beta-vinylacetamido- 8145
7beta-acylamino-7-alpha-alkoxy, antibacterial
agent 2173
alpha-haemolytic Streptococcus 4728
alpha-sulpho-, antibacterial agent 5659
aminoalkyl esters, antibacterial agent 2172
anaerobic bacteria 3010
antibacterial agent 568 1324 2174 2175 2177
2178 2194 2201 2203 2969 3005 3752 3753
3761 3765 3766 4631 4755 6546 9032 9060
9061 10267 10268 10269
antibacterial agent/animal feed 3767
antibacterial agent/animal feed/mastitis
3016
antibacterial agent/resistance 1302
antibacterial agent, sensitivity test
broth/urine 3009
antibacterial agent, turbidimetry 8120
bactericide 6553
bacteriolytic agent 4754
bacteriostat 6553
Bacteroides melanogenicus, beta-lactamase
4640
Bacteroides oralis, beta-lactamase 4640
binding proteins, Escherichia coli 5034
chicken feed 9627
derivative, Cephalosporium acremonium 4751
derivatives, Cephalosporium 4752
Enterobacter cloacae 2993
Enterobacteriaceae 6557
Escherichia coli 555 587 2993
Escherichia coli penicillin-binding proteins
5908
fluorometric assay 7390
high performance liquid chromatography 5650
immobilized microbial enzymes 5039
Klebsiella pneumoniae 2993
microbial esterase 8132
Paecilomyces carneus, paraffins 4750
Paecilomyces persicus, paraffins 4750
partition coefficient, high-pressure liquid
chromatography 10248
Pasteurella multocida 6548
penicillins 579
Proteus 2993
Proteus morganii cephalosporinase 6879
Providencia 2593
Pseudomonas aeruginosa 2993
pyrolysis gas-liquid chromatography 5636
resistance, Chromobacterium violaceum,
beta-lactamase 3673
resistance, Klebsiella aerogenes,
beta-lactamase, R factor 10122
resistance, Serratia marcescens,
beta-lactamase 3674

Subject index

Cephalosporins(Contd),

- resistance, *Staphylococcus aureus* L-form 3750
- resistance, *Staphylococcus aureus*, beta-lactamase 5535
- Salmonella enteritidis* 2993
- Serratia marcescens* 2993
- stability, aqueous solutions 4753
- Staphylococcus aureus* 9063
- Staphylococcus aureus/Enterobacter cloacae* beta-lactamase 1323
- Staphylococcus aureus* penicillinase 7372
- Streptococcus faecalis* 7003
- Streptomyces* 5648
- substituted sulphonylacetamido, antibacterial agent 2204 2205 2206
- sulfoxides 4738
- thio-beta-lactam, antibacterial agent 5666
- tolerance, *Streptococcus sanguis* 8126
- zwitterion, ionization constant 2191

Cephalosporium,

- acylase, 7-aminocephalosporanic acid derivatives 2207
- blood-coagulating protease 7653
- cephalosporin 6568
- cephem-4-carboxylic acid derivatives 4752
- cotton seed 2737
- cutting fluid, isolation media 477
- deacetylcephalosporin C 567
- dental clinic water 10479
- elm 5458
- fungus oospore parasite, soil 8881
- hexadecane degradation, heptachlor 4624
- jute seed, seed dressing fungicide 2825
- sclimicide, industrial water system 3124
- soil 3632
- soil, fumigation, ethylene 2861
- Trichothecenes 7808
- acid peat bog 10039
- cephalosporin 6568
- cephalosporin C 3762 5648 9055
- cephalosporin C, high performance liquid chromatography 5650
- cephem-4-carboxylic acid derivative 4751
- corn 6214
- deacetoxycephalosporin C 10282
- deacetylcephalosporin C 567
- light 4732
- lysed, beta-lactam antibiotics 9047
- penicillanic acid derivative, antibacterial agent 9078
- penicillin 591
- wood preservative 10030

Cephalosporium caeruleum,

- caerulein 8177

Cephalosporium chrysogenum,

- cephalosporin 6568
- cephem-4-carboxylic acid derivatives 4752

Cephalosporium curtipetras,

- wheat grain 9804

Cephalosporium gramineum,

- wheat 290 6232

Cephalosporium polyaleurum,

- deacetoxycephalosporin C 10282

Cephalosporium roseo-griseum,

- Cercospora grisea*, phalsa 1073

Cephalosporium sacchari,

- hemocellulase 2475
- rose flowers, gallic acid 8072
- sugarcane, aureofungin 8790
- sugarcane, enzymes 4347

Cephalotheca sulfurea,

- beech 1155

Cephalothin,

- + 2-isopropoxynaphth-1-yl penicillin, antibacterial agent 556 557
- + amikacin 4794
- + amikacin, *Klebsiella* 4723
- + gentamicin, *Klebsiella* 4723

Cephalothin(Contd),

- + kanamycin, *Klebsiella* 4723
- + mecillinam, antibacterial agent 1366
- + protein 3771
- resistant Enterobacteriaceae, cefoxitin/cephalosporin BL-5786 10275
- + rolitetracycline, *Escherichia coli/staphylococcus aureus* 3754
- anaerobic bacteria 2994 7375 8135 9038
- antibacterial agent 528 568 1325 2177 2178 2194 2195 3761 3773 5657 7376 9060 10268 10269
- antibacterial agent, antibiotic sensitivity testing 9035
- antibacterial agent, cefuroxime 10277
- antibacterial agent, sensitivity test broth/urine 3009
- antibiotic sensitivity testing, anaerobiosis 6547
- antibiotic sensitivity testing, blood culture 551
- bacteria, beta-lactamase 7542
- bacterial beta-lactamase, double disc method 3638
- Bacteroidaceae 10273
- Bacteroides fragilis 2164
- Bacteroides melaninogenicus, beta-lactamase 4640
- Bacteroides oralis, beta-lactamase 4640
- cephalosporins 587
- Citrobacter freundii/Citrobacter diversus 7370
- Clostridium perfringens 7371
- Corynebacterium minutissimum 1306
- Corynebacterium parvum 1306
- deacetoxy-, bacteriolytic agent 4754
- Enterobacter 1325
- Escherichia coli* 555 1325 2196 5656 5657
- Escherichia coli* amino acid transport 9062
- Haemophilus influenzae* 1325
- Haemophilus parainfluenzae* 8115
- human serum 10274
- hydroxypropyl methylcellulose artificial tear solution 4712
- Klebsiella* 1325 4723 5656
- Klebsiella pneumoniae* 5657
- Listeria monocytogenes* 5629
- melanin 1303
- minibag/minibottle antibiotic admixtures, stability 9030
- Propionibacterium acnes* 1306 5630
- Propionibacterium avidum* 1306
- Propionibacterium granulosum* 1306
- Proteus* 1325
- Proteus mirabilis* 1325 5657
- Proteus vulgaris* 5656
- Pseudomonas aeruginosa* 1325
- resistance, *Escherichia coli* 6474
- resistance, *Klebsiella* 6474
- resistance, *Klebsiella pneumoniae* 1202
- resistance, *Salmonella* 8949
- resistance, *Staphylococcus aureus* 1202 5534
- sensitivity testing, anaerobic bacteria 10232
- Serratia* 1325
- serum albumin 8133
- spectrophotometry 9058
- stability, aqueous solutions 4753
- Staphylococcus*, anaerobiosis 9044
- Staphylococcus aureus* 1325 2169 2187 5657 9063
- Staphylococcus aureus* penicillinase 7372
- Streptococcus* 1325
- Streptococcus faecalis* 1321
- Streptococcus group B* 3194
- Streptococcus group D* 5634
- Streptococcus mutans* 552
- Streptococcus viridans* 5634
- tolerance, *Bacillus subtilis* 2168
- tolerance, *Streptococcus pneumoniae* 2168

Subject index

Cephalothin(Contd),

vitamins/nicotinamide/p-aminobenzoic acid
2991

Cepham,

3-methylene, sulfoxides, penicillin
sulfoxides 2176
7-azido-, antibacterial agent 2209
derivatives, antibacterial agent 574 2190
2200
furo[3,4-c]-, antibacterial agent 4759
furo[3,4-c]-, derivatives, antibacterial
agent 4759

DL-Cepham-4-carboxylate,

methyl 7-phthalimido-6,7-trans- 585

Cepham-4-carboxylic acid,

7-(2-aminomethylphenylacetamido)-3-(1-carboxy
methyltetrazol-5-ylthiomethyl-3-l)-,
antibacterial agent 7398
derivatives, antibacterial agent 7395
Proteus morganii cephalosporinase 6879

Cephamezin,

antibacterial agent 9060

Cephameycin,

566
antibacterial agent 3761
derivatives, antibacterial agent 6575
derivatives, fungal esterase, antibacterial
agent 10283

Cephameycin C,

Streptomyces filipinensis 9057
Streptomyces lactandurans 8157

Cephameycin-type antibiotic,

Streptomyces chartreusis, antibacterial agent
7399

Cephameycins,

3763
Actinomyces 9056
antibacterial agent 9032

Cephaneone,

antibacterial agent 3761
Enterobacteriaceae 6557

Cephapirin,

+ amikacin 4794
antibacterial agent 1324 2177 2195 2969 3761
10268 10269 10284
Enterobacteriaceae 6557
Staphylococcus aureus 9063

Cephazolin,

antibacterial agent 2178
Staphylococcus aureus penicillinase 7372

Cephem,

3767
7-amino-, microbial deacylating enzyme 2202
derivative, antibacterial agent 9064
derivatives 580
derivatives, antibacterial agent 2208 2210
3015 3765 3766 7392
derivatives, antibacterial agent/animal feed
3013
derivatives, antibacterial agent/animal
feed/disinfectant 3006
derivatives, microbial/penicillin acylase,
antibacterial agent 9065
derivatives, penicillins 579 8123
derivatives, triphenylmethyl 7391

Cephem-4-carboxylic acid,

7-(5-amino-5-carboxyvaleramide)-7-methoxy-3-h
ydroxymethyl-3-, Streptomyces chartreusis,
antibacterial agent 7399
crystalline, antibacterial agent 4757
derivative, antibacterial agent 4758
derivative, Cephalosporium acremonium 4751
derivatives, antibacterial agent 3021 6572
7394 7396

derivatives, Cephalosporium 4752

fungal esterase 7400

Cephoxazole,

+ penicillin G, bacterial beta-lactamase
resistance, mastitis 10252

Cephradine,

anaerobic bacteria 3010 8145
antibacterial agent 528 2118 2195 2969 3761
6572 9060 10268 10269
bacteriolytic agent 4754
Clostridium perfringens 7371
derivative, antibacterial agent 9050
Enterobacteriaceae 6557
reverse phase high-performance liquid
chromatography 10285
sensitivity testing, anaerobic bacteria
10232
stability, aqueous solutions 4753
Staphylococcus aureus 9063
Staphylococcus aureus penicillinase 7372

Ceporin,

Proteus 9049
resistance, Yersinia pseudotuberculosis 4638

Ceraceosorus,

plant disease 1910

Ceraceosorus bombacis,

Bombax ceiba 1910

Ceramic,

fungal degradation 905

Ceramide-phosphoinositol,

Aspergillus niger 6003

Ceratobasidium,

squash 4416

Ceratocystis,

volatile odour compound 1655

Ceratocystis fagacearum,

northern red oak 2048
oak 8858
red oak, resistance 8859

Ceratocystis fimbriata,

cacao 7144
fructification sections, scanning electron
microscopy 3197
plane, fungicide 5442
plane tree 1156
poplar 7240
sweet potato 7177

Ceratocystis ips,

hydrazino-pyridine derivatives 2139

Ceratocystis major,

apple post-harvest decay 4431

Ceratocystis moniliformis,

flavour compounds 5139

Ceratocystis montia,

culture 10620

Ceratocystis paradoxa,

cellulase 5930
enzymes 9350
oil palm 5930
pineapple, fungicide 5822
pyridine derivatives 2000

Ceratocystis ulmi,

American elm 5459
antibiotic A10641 2241
chain saw oil, elm 10074
elm 5458 6395 8005 8006 10013
elm, carbendazim 6396
elm, fungicide/herbicide 2044
elm, kiln-dried lumber 10027
elm, plant protection 4533
elm, polygalacturonase/cellulase 3619
elm, resistance 3620 8854
elm, sanitation 416
methyl-2-benzimidazole carbamate 4534
nystatin 4534
wood, scanning electron microscopy 4400

Ceratostomella ulmi,

antibiotic A23187 2239

Cercobin,

Cercospora personata, Cercospora
arachidicola, groundnut rosette 8752
Rhizoctonia solani, cauliflower 1103

Cercobin M-70,

Puccinia sorghi, corn 9963

Subject index

Cercospora

- 8251
- (-)-11-acetyldehydrocurvularin 7826
- cercosporin 7826
- cercosporin ester 7826
- cynodontin 7826
- (-)-dehydrocurvularin 7826
- cis-4,6-dihydroxymellein 7826
- dothistromin 7826
- giant witchweed 9866
- cis-3S,4S-hydroxymellein 7826
- ligustrone A/Ligustrone B/Ligustrone C 7826
- mellein 7826
- 3-methoxy-2,5,7-trihydroxy-1,4-naphthoquinone 7826
- phytotoxin 7826
- rabbiteye blueberry 9850
- soybean seed 4310
- tauvapyrone 7826
- thioallophanate derivatives 391
- triazino-benzimidazole derivatives, plant protection 3588
- urd bean 2674
- Cercospora adinicola**,
Adina cordifolia 998
- Cercospora allophylorum**,
Allophylus cobbe 998
- Cercospora aptii**,
isothiazolopyridinone derivatives 2975
- Cercospora arachidicola**,
cellulase 6871
- groundnut peavine, fungicide 8792
- peanut 7114
- peanut, chlorothalonil 2016
- peanut, resistance 1979
- polygalacturonase 6871
- Cercospora beticola**,
benomyl resistance, sugarbeet 9981
- phospholane/phosphite derivatives 3576
- phytotoxin 7826
- spinach 2661
- sugarbeet 1953 4364 7174 7175
- sugarbeet, benomyl resistance 5389
- sugarbeet, resistance 2788
- sugarbeet, topsin M 8823
- triazolo-benzothiazole derivatives, plant protection 7216
- Cercospora bidentis**,
Jerusalem artichoke 6252
- Cercospora canescens**,
cowpea, resistance 5405
- Cercospora capsicicola**,
pepper 2753
- Cercospora carthami**,
safflower 305
- Cercospora coffeicola**,
plant disease 2656
- Cercospora colanituberosi**,
potato, resistance 7957
- Cercospora commelinae-salicifoliae**,
Commelina salicifolia 998
- Cercospora cruenta**,
cowpea 6188
- cowpea, resistance 5405 7194
- Cercospora daemlicola**,
Daemia extensa 998
- Cercospora digitariae**,
Digitaria stricta 1927
- Cercospora elaeidis**,
oil palm, fungicide 8803 9968
- Cercospora fusimaculans**,
pearl millet, culture medium 1022
- Cercospora greviae**,
phalsa, Cephalosporium roseo-griseum 1073
- Cercospora herpotrichoides**,
fungicide, plant protection 7206
- Cercospora hibisci**,
okra 1C69
- Cercospora kikuchii**,
aculeacins 8175
- Cercospora kikuchii** (Contd),
soybean 5310
- soybean seed 6199
- Cercospora leae-macrophyllae**,
Leae macrophylla 998
- Cercospora linicola**,
flax 305
- Cercospora midnapurensis**,
Tylophora asthmatica 999
- Cercospora mitragynae**,
Mitragyna parvifolia 5460
- Cercospora musae**,
bis-trifluoromethyl-imine-imidazolone derivatives, plant protection 5429
- Cercospora nicotianae**,
tobacco 1959
- Cercospora oryzae**,
rice 6224
- rice, fungicide 4486
- Cercospora personata**,
2-amidocarbonylthiobarbituric acids 2027
- groundnut peavine, fungicide 8792
- peanut, carbendazim 4516
- peanut, thiabendazole 4516
- Cercospora rodmanii**,
water hyacinth 8745
- Cercospora sequotiae**,
Rocky Mountain juniper 6365
- Cercospora smilacis**,
dothistromin 7065
- 2-epidothistromin 7065
- Cercospora sojae**,
soybean 6196
- Cercospora sorghi**,
Sorghum bicolor, fungicide 7973
- Cercospora tagetis**,
Tagetes patula 999
- Cercospora thumbergiana**,
Thunbergia grandiflora 8593
- Cercospora tragiiae-folii**,
Tragia involucrata 999
- Cercospora urariae**,
Uraria lagopoides 999
- Cercospora viticola**,
copper fungicide, plant protection 8807
- Cercospora viticola**,
triazino-benzimidazole derivatives, plant protection 3588
- wheat, straw fertilisation/straw burning 1887
- Cercospora herpotrichoides**,
wheat 291 4315 8652
- wheat, fungicide 8797
- wheat, soil straw 5334
- Cercosporidium guanicense**,
Mexican prickly poppy 4394
- Cercosporidium personatum**,
benzimidazole resistance, plant protection 7204
- peanut, chlorothalonil 2016
- Cercosporin**,
Cercospora 7826
- Cercosporin ester**,
Cercospora 7826
- Cereals**,
aflatoxin B1 4255
- aflatoxin B1, thin-layer chromatography 3430
- aflatoxin B2 4255
- aflatoxin G1 4255
- aflatoxin G2 4255
- cereal chlorotic mottle virus 7117
- Claviceps purpurea 4317
- fungal diseases 2685
- fungal diseases, diallate 269
- Fusarium avenaceum, soil 7876
- Fusarium culmorum, soil 7876
- Fusarium, culture medium 8295
- Fusarium poae, T-2 toxin 1811
- Fusarium solani, soil 7876
- Fusarium sporotrichioides, T-2 toxin 1811

Subject index

Cereal (Contd),

grain, *Tilletia* 9621
Helminthosporium sativum, culture medium 8295
Helminthosporium sativum, soil 7876
gamma-irradiation, aflatoxin 3432
ochratoxin A 4255
ochratoxin A, thin-layer chromatography 3430
ochratoxin B 4255
ochratoxin B, thin-layer chromatography 3430
Phleum green stripe virus, Megadelphax sordidula 1871
Puccinia coronata avenae 4338
Puccinia graminis 271 4334
Puccinia graminis, air 4318
Puccinia recondita 271
Puccinia recondita, air 4318
resistance, fungal diseases 2685
rust, computer model 7118
sterigmatocystin 4255
sterigmatocystin, gas-liquid chromatography + electron-capture detector 7074
sterigmatocystin, thin-layer chromatography 3430
virus diseases 2684
zearalenone 4255

Cereal chlorotic mottle virus,

Gramineae 7117

Cereale secalis,

resistance, *Puccinia dispersa* 1093
resistance, *Puccinia graminis secalis* 1093

Ceresan,

Operculella padwickii 1100
Sclerotium oryzae, rice 284
seed dressing, fungi, jute seed 2825
seed treatment, *Pythium aphanidermatum*, sugarbeet 2034

Ceresan wet,

Fusarium oxysporum 4684
Fusarium oxysporum, ginger 2007
seed treatment, safflower seed mycoflora 8838
Verticillium dahliae, brinjal 4489
Xanthomonas malvacearum, cotton 3595

Cerexin A,

structure 9132

Cerexin B,

structure 9133

Cerexin C,

Bacillus cereus 9134

Cerexin D,

Bacillus cereus 9134

Cerium,

+ chlortetracycline, spectrophotometry assay 9109

Cerotilum fici,

fig, fungicide 5421

Cerotoma rufficornis,

bean yellow stipple virus, bean 6180

Cerotoma trifurcata,

bean pod mottle virus, soybean 4309

Cerulein,

Cephalosporium caerulens 8177
Staphylococcus aureus enterotoxin B 7859
Staphylococcus aureus enterotoxin C 7859
Staphylococcus aureus, fatty acid 6631
Streptomyces kitasatoensis, leucomycin 9139

Cetavlon precipitation,

Escherichia coli polysaccharide K antigen 3178

Cetrimide,

Providencia stuartii 4654

Cetrimide medium,

Pseudomonas 3191

Cetyl alcohol,

Mycobacterium lacticum, hexadecane 2919

Cetylpyridinium chloride,

mouthwash, dental plaque 1537

Chaconia butleri,

Jasminum lanceolaria 997

Chaconia butleri (Contd),

Jasminum pubescens 997

Chaenomeles,

Sclerotinia laxa 1900

Chaetoceros lauderi,

extract, fungicide 7330

Chaetocladium jonesii,

beech 1155

Chaetocnema pulicaria,

Erwinia stewartii, corn, carbofuran 8783

Chaetomella circinosea,

tobacco rhizosphere 1165

Chaetomium,

bottle gourd seed, seed treatment fungicide 8682

8-chloro-10,11-dihydrodibenz(o,f)(1,4)oxazepine transformation 4137

soil, chloramben 2898

sunflower seed 1957

Chaetomium biapiculatum,

large cardamon 4224

Chaetomium cellulolyticum,

mushroom culture 1760

protein 6840

protein, cellulase, wheat straw 9347

Chaetomium cochliodes,

2,5-dihydroxy-1,4-benzoquinones 8082

8-hydroxy-6 α -11 α -dimethyl-3-alkyl-acyl-1,2,3,4,5,6-hexahydro-2,6-methano-3-benzozocin transformation 2535

17 α -pregn-4-ene-21-carboxylic acid derivatives 5980

wood veneer 4549

Chaetomium fusisporale,

oil palm kernels 4220

Chaetomium globosum,

3,5-dihalo-4-hydroxyacetophenones 8076

alkyltin cyclopropyl derivatives 1260

auricula tree 1837

beech degradation, ultraviolet/fluorescence microscopy 5466

benzisothiazolin-3-one derivatives 534

benzisothiazolinone + quaternary ammonium compound 4687

cellulase 7613

clothes 110

cyanodithioimidocarbonic acid derivatives 1261

Dacrydium heartshake podocarpic acid 7234

bis(diphenylaminomethane) derivatives 1265

dithiocarbamate derivatives 6526

European beech bark degradation 4552

fungicide 2053

gram phyllosphere, *Uromyces ciceris-arietini*, gram 3465

malabar nut tree 1837

mercurated sulphonamides 1262

nitroperhydropyridodiazepine derivatives 2976

Norway spruce bark degradation 4552

oxazolidine derivatives 3703

paper degradation 2551

pigeon pea rhizosphere 6422

plastics degradation 2553

polyvinylchloride building sealant degradation 4279

quaternary ammonium salt 470

spruce degradation, ultraviolet/fluorescence microscopy 5466

thiazinium derivatives 3725

wood preservative 10030

Chaetomium gracile,

dextranase, dentifrice 105C2

Chaetomium herbarum,

cellulase 7613

Chaetomium indicum,

large cardamon 4224

Chaetomium olivaceum,

Trigonella corniculata seed 1017

Subject index

- Chaetomium rufum**,
soil 4577
- Chaetomium thermophile**,
Agaricus bisporus culture 9602
enzymes 9350
wood chips 10023
- Chaetomium trilaterale**,
enzymes 9350
wood 7242
- Chaetophoma oleacina**,
Barleria crystata 1836
- Chafer**,
European, Bacillus popilliae insecticide 87
- Chain disrupting system**,
Streptococcus faecalis, gel filtration 4135
- Chain saw oil**,
Ceratomyx ulmi, elm 10014
- Chainia**,
glycoside-hydrolase inhibitor 80
- Chalcone**,
analogues, antibacterial agent 8071
antibacterial agent 7318
antibacterial agent/antifungal agent 7347
- Chalcopryite**,
copper leaching, ferrololobus 10087
copper leaching, Sulfolobus acidocaldarius 10087
leaching, Thiobacillus ferrooxidans 1180
Thiobacillus ferrooxidans, metal leaching 464
- Chalmoogra oil**,
antifungal agent, plant protection 386
- Chamaecyparis**,
Echinodontium taxodii 5448
Veluticeps berkeleyi 5448
- Chamaecyparis lawsoniana**,
Phytophthora cinnamomi 7999
Phytophthora cinnamomi, fungicide 8843
Phytophthora lateralis 3606
Phytophthora lateralis, soil 5447
- Champagne**,
yeast, aroma compound 897
- Chanoclavine**,
Penicillium concavo-rugulosum 5125
- Charcoal**,
activated, patulin, cider 1809
- Charcoal perfusion**,
amanitin 4264
- Charcoal rot**,
Botryodiplodia theobromae, cacao 3506
Macrophoma, cacao 3506
Macrophoma phaseolina, soybean 1016 6196
Macrophoma phaseolina, sunflower 333
Rhizoctonia bataticola, sugarbeet 1084
- Chartreusin**,
lambdamycin 10375
- Cheese**,
2575 3225 4200 4201 4202 5217 6048 6058
6059 7739 7748 9554 9557 9560 9562 9568
aflatoxins 7817 8562
American 7749
American, Mucor miehei esterase 924
American, starter culture 7751
American, Streptococcus cremoris/Streptococcus lactis Superstart culture 6053
Austrian 3225
Awshari 6060
Bacillus polymyxa milk-clotting enzyme 923
Bacillus polymyxa rennet 6045
bacterial culture 922
baker's, Staphylococcus aureus, paper strip method 8473
beer, Microzyme 8496
bitterness, Streptococcus 9565
blue, Penicillium + fungal lipase 6061
blue, Penicillium roqueforti 925 7749
blue, Penicillium roqueforti alkaloids 926
blue, Penicillium roqueforti beta-ketoacyl decarboxylase 1656
blue, Saccharomyces lactis lactase 9555
Brevibacterium linens, milk protein hydrolysis 5221
brine 3392
brinsen, microflora 6066
Camembert 3393 7741
Camembert, aflatoxins 8562
Camembert, coliforms 9567
Camembert, foot-and-mouth disease virus 339
Camembert, microbiology, pesticide 1725
Camembert, Microzyme 8497
Camembert, mycotoxins 224
Camembert, Saccharomyces lactis lactase 9555
Cheddar 4202 6062 7752 9568
Cheddar, Absidia ramosa milk-clotting enzyme 7752
Cheddar, bacterial lipase 157
Cheddar, bovine pepsin 4206
Cheddar, cheese slurry 5224
Cheddar, foot-and-mouth disease virus 3391
Cheddar, microbial lipase 7006
Cheddar, milk bacteriology 9558
Cheddar, Pseudomonas fluorescens lipase 5225
Cheddar, Pseudomonas fragi lipase 5225
Cheddar, Rhizopus oligosporus rennet 5223
Cheddar, Saccharomyces lactis lactase 9555
Cheddar, Salmonella 158
Cheddar, Salmonella infantis 4207
Cheddar, Salmonella new-brunswick 4207
Cheddar, Salmonella newport 4207
Cheddar, Shigella sonnei 6063
Cheddar, Staphylococcus aureus, paper strip method 8473
Cheddar, starter bacteria 6052 6057 8499
Cheddar, Streptococcus 1739
Cheddar, Streptococcus cremoris/Streptococcus lactis Superstart culture 6053
Cheddar, sulphur compound, flavour 1738
Cheddar, whey, wine 2548
Churbi, microbiology 7750
citrate, starter bacteria 6047
Clostridium tyrobutyricum 917 918
cottage 6064 7741
cottage, Klebsiella pneumoniae 1737
cottage, lactase 7002
cottage, lactose, fungal beta-galactosidase 8486
cottage, lyophilisation, preservation 8542
cottage, microorganisms 3394
cottage, packaged, preservation, pimaricin 6125
cottage, preservation 964
cottage, Saccharomyces lactis lactase 9555
cottage, Staphylococcus aureus, paper strip method 8473
cottage, starter bacteria 6056
cottage, Streptococcus diacetylactis 3395
cottage, Xanthomonas campestris polysaccharide 1740
cream, Klebsiella pneumoniae 1737
Domiat 159
Domiat, citric acid 5226
Domiat, lactic starter 1741
Edam, microbial rennet 7754
Emmental 5227 7749 8500 8501
Emmental, conductivity 6065
Emmental, gram-negative bacteria 5228
Emmentaler, bacteriology 2576
Emmentaler, Lactobacillus bulgaricus 7007
Emmentaler, preservation, sorbate 3426
Emmentaler, Propionibacterium shermanii, proline 6832
Endothia parasitica milk-clotting enzyme 923
Endothia parasitica protease 7001
Endothia parasitica rennet 5094 5222 6045
Fontina, microbiology 160
Fontina, Mucor miehei esterase 924

Subject index

Cheese(Contd),

fresh, *Torulopsis sphaerica* 4203
Gouda 7756
Gouda, nitrate/nitrosamine 7755
Gouda, preservation, sorbate 3426
hard, starter bacteria 6057
immobilised protease 6C46
Israeli pickled, microbiology 9571
Karish, soybean milk 9569
Kefalotyri, *Micrococcus*, *Staphylococcus* 9570
lactic acid bacteria 7004
lactic acid bacteria, enzymes 7003
Lactobacillus bulgaricus, phage, medium 151
Lactobacillus helveticus, phage, medium 151
Lactobacillus lactis, phage, medium 151
mastitis 1724
microbial milk-clotting enzymes 8494 9559
microbial rennet 45 2573 5094 5222 8495
microbiological standards 9556
microbiology 152
Monascus anka 8498
mould 4190
Mozzarella, foot-and-mouth disease virus 3391
Mozzarella, *Saccharomyces lactis* lactase 9555
Mozzarella, *Staphylococcus aureus*, paper strip method 8473
Mucor miehei esterase 924
Mucor miehei milk-clotting enzyme 923
Mucor miehei milk-coagulating enzyme 9419
Mucor miehei protease 7001
Mucor miehei rennet 5094 5222 6045
Mucor pusillus milk-clotting enzyme 923
Mucor pusillus protease 7001
Mucor pusillus rennet 5094 5222 6045
nisin 8540
Noordhollandse Meshanger 7757 7758
packaging 217
pasta filata, starter bacteria 9563
pasta filata, *Streptococcus thermophilus* + *Lactobacillus bulgaricus*/*Lactobacillus helveticus* 1742
Penicillium caseicolum 3390
Penicillium caseicolum protease 9431
Penicillium roqueforti 339C
Penicillium roqueforti, lipids 9566
Penicillium roqueforti, PR toxin 3437
phage-resistant *Streptococcus cremoris* 5218 5219
phage-resistant *Streptococcus lactis* 5219
pimaricin, thin-layer chromatography/high pressure liquid chromatography 8541
pizza, *Staphylococcus aureus*, paper strip method 8473
preservation 964
preservation, sorbate 3426
processed, aflatoxins 8562
Propionibacterium, selective medium 156
Propionibacterium shermanii, milk protein hydrolysis 5221
Provolone, microbiology 2577
Provolone, preservation, sorbate 3426
quality control 9557
Rau, microbiology 775C
Rhizopus rennet 6045
ricotta, *Staphylococcus aureus*, paper strip method 8473
rind, ozone, antifungal agent 2610
Romano, *Mucor miehei* esterase 924
Roquefort, PR toxin 224
Roquefort, *Trichosporon penicillatum* 7759
Russian, *Shigella sonnei* 6063
Saint-Nectaire, yeasts 161
sheep, microflora 6066
spread, soybean, lactic acid bacteria 9599
Staphylococcus aureus, Baird-Parker selective medium 7724
Staphylococcus aureus, selective medium 7005

Cheese(Contd),

Staphylococcus enterotoxin B, radioimmunoassay 6156
starter bacteria 6049 6051 6052 6055 7740
starter bacteria, glycerophosphate-milk-agar medium 155
starter *Streptococcus* 154
Streptococcus 1736
Streptococcus cremoris 1735
Streptococcus cremoris, autolysin 1734
Streptococcus cremoris cell wall-associated protease 522C
Streptococcus cremoris, culture 153
Streptococcus cremoris, milk protein hydrolysis 5221
Streptococcus cremoris, phage 4199
Streptococcus diacetylactis, culture 153
Streptococcus durans beta-galactosidase 27
Streptococcus faecalis beta-galactosidase 27
Streptococcus faecium beta-galactosidase 27
Streptococcus lactis 3390
Streptococcus lactis, culture 153
Streptococcus lactis, milk protein hydrolysis 5221
Streptococcus lactis peptidase 9564
Streptococcus lactis, phage 4199
Streptococcus starter, lysogenic strain 2574
Streptococcus thermophilus, phage, medium 151
Swiss, culture medium, *Kluyveromyces fragilis* 4004
Swiss, lactic acid bacteria 162
Tilsiter, preservation, sorbate 3426
Ulloa, microflora 9572
whey, fermentation, galactose 8489
whey, fermentation, *Lactobacillus bulgaricus*, ruminant feed 4226
white, *Staphylococcus aureus*, culture medium 1743
white, *Staphylococcus aureus*, selective medium 9573
Xanthomonas colloid 9561
Cheese factory,
lactic streptococcal phage 3389
Cheese-like flavour,
Candida lipolytica 4204
Cheese whey,
microbiology 4205
Cheese whey medium,
Propionibacterium shermanii, porphyrin/corrinoid 4133
Cheiranthus cheiri,
Xanthomonas campestris 1963
Chelatometry,
epicillin assay 6582
Chelidonium,
alkaloids, influenza virus 8994
Chelidonium majus,
alkaloids, influenza virus 8994
Chelocardin,
anilino derivatives, antibacterial agent 5726
anilino derivatives, bacteriostat 3064
Chemiluminescence,
microbial ATP 5119
Chemostat culture,
Bacillus licheniformis, acetic acid, redox potential 8313
Bacillus licheniformis, penicillinase 5087 5913
Bacillus licheniformis, phosphatase 5913
Bacillus licheniformis, protease 5913
Bacillus licheniformis, ribonuclease 5913
Bacillus megaterium 5839 9268
Bacillus megaterium, penicillin amidase 5087
Candida boidinii, methanol 6825
Candida utilis 9292 9293
Candida utilis, computer 10619
Escherichia coli, glucose 10561
flow microcalorimeter 7562

Subject index

Chemostat culture(Contd),

- Klebsiella aerogenes 4951
- Methanobacterium, Citrobacter, methane 8937
- methanol, Hansenula polymorpha, methanol oxidase 4982
- microorganisms 1541 3945 4152 10515
- Mycobacterium/Nocardia + Pseudomonas + Moraxella + Methylococcus, methane 10097
- Saccharomyces cerevisiae 1595
- Thiobacillus ferrooxidans, iron oxidation 8931

Chemotaxis,

- medium, Bacillus subtilis 4941

Chemotaxis chamber,

- 3952

Chenopodiaceae,

- Nicotiana velutina mosaic virus 1908

Chenopodium,

- pea enation mosaic virus 5307

Chenopodium album,

- tobacco etch virus 1936

Chenopodium amaranticolor,

- celery mosaic virus 3499
- leaf extract, tobacco necrosis virus 4521
- peanut clump virus 3467
- tobacco mosaic virus, virus-infection stimulating factor 8737
- tobacco necrosis virus 4425

Chenopodium murale,

- celery mosaic virus 3499
- hop latent virus 1064
- sowbane mosaic virus 5287

Chenopodium quinoa,

- asparagus virus 1 8686
- celery mosaic virus 3499
- Daphne virus Y 3511
- grapevine fanleaf virus, grapevine 1933
- potato virus S 324

Cherry,

- Agrobacterium tumefaciens, biological control, Agrobacterium radiobacter 5438
- black, Phlebia chrysoscrea 418
- flowering, tobacco ringspot virus 7901
- mahaleb, Agrobacterium tumefaciens 2727
- mazzard, Agrobacterium tumefaciens 2727
- microbial diseases 9817
- Monilia fructicola, benomyl tolerance 4627
- Phytophthora cambivora 4362
- Phytophthora drechsleri 4362
- Phytophthora megasperma 4362
- Pseudomonas morsprunorum lipopolysaccharide 2519
- Sclerotinia laxa 1900 4292
- sour, Gnomonia erythrostoma 9828
- sour, Monilia laxa, fungicide 9829
- sour, Prunus necrotic ringspot 6242
- sour, Pseudomonas morsprunorum 7138
- sour, Pseudomonas syringae 7138
- sweet, isometric labile ringspot viruses 300
- sweet, Pseudomonas mors-prunorum 1901 5351
- sweet, replant disease, Thielaviopsis basicola + Pratylenchus penetrans 5352
- sweet, tobacco ringspot virus 7901
- viruses, cucumber 299

Cherry leaf roll virus,

- plant disease 9748

Cherry necrotic ringspot virus,

- cherry, cucumber 299

Cherry necrotic rusty mottle virus,

- cherry, cucumber 299

Cherry ring mottle virus,

- cherry, cucumber 299

Cherry tatter-leaf virus,

- dodder transmission 1610

Cherry yellow mottle virus,

- cherry, cucumber 299

Chestnut,

- Endothia parasitica, biological control 3617
- Phytophthora cryptogeta 3618

Chicken,

- see also Poultry

- + soybean protein, patties, bacteria 7764
- antibiotic residues 4230 7783
- carcass, bacteriology, cotton swab sampling/alginate swab sampling 1745
- carcass, Enterobacteriaceae 7011
- carcass, Escherichia coli, irradiation 9674
- carcass, hygiene 7523
- carcass, microbiology 2579
- carcass, Salmonella, gamma-irradiation 4238
- carcass, Salmonella, modified water rinse sampling 6072
- carcass, Salmonella panama, irradiation 9674
- carcass, Salmonella typhimurium, chlorination + succinic acid + heat treatment 1787
- egg, aflatoxins 6137
- Escherichia coli, antibiotics resistance 8947
- feed, aflatoxins, egg 6137
- feed, antibacterial agent 9627 9628
- feed, antibiotic A-2315 3799
- feed, antibiotics 9627 9628
- feed, antibiotics, residues 7783
- feed, bacitracin, residues 4230
- feed, brewers' yeast 9618
- feed, chlortetracycline, Mycoplasma synoviae 951
- feed, citrus waste activated sludge 1764
- feed, erythromycin, assay 7784
- feed, flavomycin, residues 4230
- feed, fungistat, gentian violet 956
- feed, Fusarium roseum, T-2 toxin 7836
- feed, Fusarium trincinctum, T-2 toxin 7836
- feed, lambdamycin 9629
- feed, lyophilised lactic acid bacteria/lyophilised propionic acid bacteria 6094
- feed, 3-(1-Methyl-5-nitro-2-imidazolyl-methylidene amino)-2-oxazolidinone, Pasteurella 2114
- feed, microbial protein 7778
- feed, monensin, assay, Streptococcus faecalis 7785
- feed, penicillin 202
- feed, Pseudomonas methylotropha protein, methanol 2598 9616
- feed, Salmonella, chicken carcass 948
- feed, spiramycin, residues 4230
- feed, T-2 toxin 7836 7837 7838
- feed, tetracycline, bacterial resistance 9630
- feed, thiopeptin, assay, Acholeplasma laidlawii 7786
- feed, Torula utilis protein 5242
- feed, virginiamycin, residues 4230
- feed, zearalenone 1769
- food poisoning 6071
- frozen fried, microbiology 1746
- frozen, Salmonella 7012
- hygiene 3398
- leg muscle, spoilage microorganisms 8506
- manure, composting, bacteria 8222
- Marek's disease vaccine, turkey 3091
- microorganisms 3398
- Newcastle disease virus diluents 1450
- ochratoxin 234
- patties, packaged, refrigerated, microbiology 7763
- refrigerated, microorganisms, volatile odour compounds 929
- salad, Staphylococcus enterotoxin B, radioimmunoassay 6156
- Salmonella 8507
- Salmonella, antibiotics resistance 7301
- Salmonella, cold storage, polyphosphate 4239
- Staphylococcus 740
- Chicken embryo,
- intravascular inoculation, syringe-stabilizer unit 1604

Subject index

Chicken feed,

Methylophilus methylotrophus, methanol 9617

Chickpea,

see also Gram

+ Rhizobium, nitrogen fixation 4582

+ Rhizobium, nitrogen fixation, nodulation 6444

+ Rhizobium, nitrogen fixation, proteins 2883

+ Rhizobium, nodulation, nitrogen fixation 8029

Helminthosporium carbonum, phytoalexin 6348

pea leaf roll virus 2667

Chilled farinaceous food product,

microbiology 5234

Chilli,

Botryodiplodia theobromae 2733

chilli leaf curl virus, Bemisia tabaci, insecticide 7964

Colletotrichum capsici, plant protection 7145

Colletotrichum capsici, sporulation 1001

Colletotrichum piperatum 2734

Colletotrichum piperatum, fungicide 4490

cucumber mosaic virus 1052 1053

cucumber mosaic virus, antiviral agent 8834

cucumber mosaic virus, plant growth

regulators 3555

Fusarium oxysporum, fungicide 4490

Fusarium, plant protection 7145

Glomerella cingulata 2733

microbiology 7025

microorganisms 4223

Oidiopsis 1919

Phytophthora, plant protection 7145

Pythium, plant protection 7145

resistance, chilli leaf-curl virus 4462

resistance, chilli mosaic virus 4462

resistance, pepper veinial mottle virus 5410

Rhizoctonia bataticola, bavistin 6370

Rhizoctonia, plant protection 7145

Sclerotinia sclerotiorum 2733

viral diseases, plant protection 7145

Xanthomonas vesicatoria 6249

Chilli leaf curl virus,

chilli, Bemisia tabaci, insecticide 7964

chilli, resistance 4462

Chilli mosaic virus,

chilli, resistance 4462

Chilling,

food preservation 5250

Chinese fermentation jar,

sauerkraut 4222

Chitin,

Aspergillus flavus, chitin synthetase 4121

corn post-harvest decay assay 9907

microbial degradation 116

soil, biological control, Fusarium oxysporum, pea 5412

soybean post-harvest decay assay 9907

Chitin synthetase,

Aspergillus flavus, chitin 4121

Chitinase,

Actinomyces kurssanovii 21 9373

Bacillus thuringiensis 5058

Streptomyces orientalis, Rhizopus cell wall 6881

Chitinase,

Actinomyces kurssanovii 21

Chitrase,

plumbagin, antibacterial agent 2109

Chlamydia,

cell culture, gentamicin 611

dipyridazole 10182

Chlamydia psittaci,

chick embryo chorioallantoic membrane cell culture 8298

Chlamydia trachomatis,

ampicillin 10242

Chlamydia trachomatis(Contd),

antibody, microimmunofluorescence 1564

chloramphenicol 10242

erythromycin 10242

penicillin 10242

penicillin G 10294

rosamicin 10242

sulphisoxazole 10242

tetracycline 10242

Chlamydomucor oryzae,

+ yeast, Indonesian taoe ketan fermentation 8452

Chlamydospore,

Byssochlamys fulva 129

Fusarium soluhureum 5858

Cholincocin,

resistance, Clostridium perfringens 1208

Chloramben,

soil, Chaetomium 2698

Chloramine,

antimicrobial agent 5804

phytoplankton, sewage chlorination 9226

N-Chloramine,

soft, derivatives, antibacterial

agent/antifungal agent 5594

Chloramine 80,

disinfectant, bacterial resistance 1192

Chloramine T,

iodination, Escherichia coli outer membrane

lipoprotein labelling 8274

iodination, radioactive labelling, viruses 9300

Staphylococcus aureus enterotoxin B

iodination 7096

vaccinia virus 6736

viricide 1241

Chloramphenicol,

+ amikacin 4794

+ amikacin, Klebsiella 4723

+ gentamicin, Bacteroides fragilis 10261

+ gentamicin, Escherichia coli 10261

+ gentamicin, Klebsiella 4723

+ hexamethylenetetramine, antibacterial agent 2226

+ kanamycin, Klebsiella 4723

+ netilmicin, antibacterial agent 1428

+ penicillin G, Staphylococcus aureus 8127

acylation, Streptomyces griseus 1372

agricultural crops, gas-liquid chromatography 4771

anaerobic bacteria 2994 7375 9038 9096

anaerobic bacteria, antibiotic sensitivity

testing 2165

antibacterial agent 6546

antibacterial agent, antibiotic sensitivity testing 9035

antibiotic mixture, microbiological assay 2990

antibiotic sensitivity testing, blood culture 551

antibiotics 2999

assay 9033

assay, Bacillus stearothermophilus 4719

assay, chloramphenicol acetyltransferase 618

assay, colorimetry 5686

Bacteroides fragilis 2166 2996 10261

bile system microflora 2995

Botrytis cinerea 4669

Chlamydia trachomatis 10242

Clostridium perfringens 7371

Enterobacter aerogenes 1214

enterobacteria 9040

Enterobacteriaceae 6565

Escherichia coli 1214 1304 7368 10261

Haemophilus influenzae 558 5640 8114

Haemophilus parainfluenzae 8115

intermediates, high-performance liquid chromatography 6600

Klebsiella 4723 7368

Klebsiella pneumoniae 1214

Subject index

Chloramphenicol (Contd),

Listeria monocytogenes 5629
Micrococcus radiodurans thymine-less death 4745
 milk, thin-layer chromatography 1722
 mycoplasma-like organism, purple top roll disease, ootato 5386
 mycoplasma-like organism, witches' broom, dogwood 1928
 mycoplasma, witches' broom, *Angelonia salicariaefolia* 3500
Neisseria gonorrhoeae 8118
Neisseria meningitidis 4724
Pasteurella haemolytica 3747
Pasteurella multocida 3747 6548
Pectobacterium carotovorum, potato post-harvest decay 6324
Phytophthora parasitica, Piper betle 9970
Propionibacterium acnes 5630
Proteus 1304 7368
Proteus mirabilis 1214
Pseudomonas aeruginosa 1214 1304 3748 7368
Pseudomonas pseudomallei 8117
 resistance, *Bacillus megaterium* 8959
 resistance, bacteria, meat 1748
 resistance, *Bacteroides* 5540
 resistance, coliform, R factor, sewage treatment 2305
 resistance, coliforms, food 4633 6028
 resistance, *Escherichia coli* 6474 8050
 resistance, *Escherichia coli*, antibiotics 2098
 resistance, *Escherichia coli*, chloramphenicol acetyltransferase, R factor 8960
 resistance, *Escherichia coli*, food 6028
 resistance, *Haemophilus influenzae* 6487
 resistance, *Haemophilus influenzae*, R factor 10118
 resistance, *Klebsiella* 6474
 resistance, *Klebsiella pneumoniae*, R factor 8944
 resistance, *Pseudomonas aeruginosa* 3749
 resistance, *Pseudomonas aeruginosa*, + heavy metals resistance 7294
 resistance, *Rhizobium* 2924
 resistance, *Salmonella* 7300 8948
 resistance, *Salmonella*, chicken 7301
 resistance, *Salmonella typhi* 4635 5529
 resistance, *Salmonella typhi*, antibiotics 2098
 resistance, *Salmonella typhimurium* 4642 6477
 resistance, *Shigella* 10120
 resistance, *Shigella dysenteriae* 487
 resistance, *Staphylococcus aureus* 7302
 resistance, *Streptococcus agalactiae*, R factor 3672
 resistance, *Streptococcus faecalis* 8950 8961
 resistance, *Streptococcus faecalis*, R factor 10121
 resistance, *Streptococcus group D*, R factor 8962
 resistance, *Streptococcus haemolyticus* 8961
 resistance, *Streptococcus pneumoniae* 8961
 resistance, *Streptomyces coelicolor* 6488 8053
 resistance, *Streptomyces griseus*, chloramphenicol acetyltransferase 6882
 resistance, *Vibrio cholerae* 2100
 ruminant feed 7039
Salmonella 1307 8163 8949 9043
Salmonella paratyphi 559
Salmonella/Shigella 7380
Salmonella typhi 559
 sensitivity testing, anaerobic bacteria 10232
 sensitivity testing, anaerobic bacteria, Wilkins-Chalgren medium 10229
 shelf-life 9031
Shiella + *Candida albicans* 5631

Chloramphenicol (Contd),

Staphylococcus 1304 1308 7368
Staphylococcus anaerobiosus 9044
Staphylococcus aureus 1214
Staphylococcus aureus L-form 3750
Streptococcus 3751 7368
Streptococcus faecalis 1214 3003
Streptococcus group D 7368
Streptococcus mutans 552
Streptomyces, chloramphenicol acetyltransferase, chloramphenicol-3-acetate esterase 9095
Streptomyces venezuelae 8162
Streptomyces venezuelae, chloramphenicol acetyltransferase, chloramphenicol-3-acetate esterase 9095
Streptosporangium viridogriseum, chloramphenicol acetyltransferase, chloramphenicol-3-acetate esterase 9095
 tobacco necrosis virus, *Chenopodium amaranticolor* 4425
 trickling filter microorganisms, sewage treatment 3862
 N-trifluoroacetyl analogue, *Escherichia coli* 6601
 tritium-labelled 4770
Vibrio cholerae 4729
Vibrio cholerae, antibiotic sensitivity testing 9046
 vitamins/nicotinamide/p-aminobenzoic acid 2991
Yersinia enterocolitica 4730
Chloramphenicol-3-acetate esterase,
Corynebacterium hydrocarboclastus, corynecins 9095
Streptomyces, chloramphenicol 9095
Streptomyces venezuelae, chloramphenicol 9095
Streptosporangium viridogriseum, chloramphenicol 9095
Chloramphenicol acetyltransferase,
 chloramphenicol assay 618
Corynebacterium hydrocarboclastus, corynecins 9095
Escherichia coli, chloramphenicol resistance, R factor 8960
Streptococcus faecalis, chloramphenicol resistance 8961
Streptococcus haemolyticus, chloramphenicol resistance 8961
Streptococcus pneumoniae, chloramphenicol resistance 8961
Streptomyces, chloramphenicol 9095
Streptomyces griseus 6882
Streptomyces venezuelae, chloramphenicol 9095
Streptosporangium viridogriseum, chloramphenicol 9095
Chlorbutol,
 preservative, antibacterial agent 6539
Chlorguanide triazine,
 mutagen, *Streptococcus faecium* 10144
Chlorhexidine,
 alcoholic, antiseptic 8252
 antibacterial agent 6738 10152
 dental plaque 1538
Providencia stuartii 4654
 soft contact lens soaking solution, *Pseudomonas aeruginosa/Pseudomonas cepacia* 4912
 teat dip, cattle mastitis 3922
 toothpaste, antibacterial agent 5815
Chlorhexidine digluconate,
 hand disinfection 10495
Chlorhexidine gluconate,
 antibacterial agent/skin antiseptic 4908
Flavobacterium meningosepticum 4850
 preservative, antibacterial agent 6539
 soft contact lens preservative 4700

Subject index

- Chlorhydroxyquinoline,**
assay, *Streptococcus faecalis* 8101
- Chloride,**
sodium, medicament sterilisation 2154
- Chlorination,**
+ succinic acid + heat treatment, *Salmonella typhimurium*, chicken carcass 1787
drinking water 2323
drinking water disinfection 6717 7500
effluent disinfection 3113
industrial water system 9217
microbial film, industrial water system 717
sewage disinfection 6685
sewage, phage MS-2 + bentonite 6519
sewage, phytoplankton 9226
sewage, sea water 5782
swimming pool water disinfection 7500 10480
swimming pool water, sodium dichloroisocyanurate dihydrate tablet 2332
wastewater disinfection 7500
water 8237 10477
water disinfection 6718 10480
water, indicator microorganisms 1499
water, phage MS-2 + bentonite 6519
water, sodium dichloroisocyanurate dihydrate tablet 2332
water, viruses 1500
- Chlorination-dechlorination-postaeration system**
effluent disinfection 3113
- Chlorinator,**
swimming pool water 8241
- Chlorine,**
industrial water system 9213
laundry washing machine sanitation 4892
microbial fouling, industrial water system 10469
phage MS-2 + bentonite 6519
phytoplankton, sewage chlorination 9226
resistance, *Mycobacterium marinum*, swimming pool water 2331
water 10477
- Chlorine compound,**
canned food cooling water 1780
- Chlorine disinfectant,**
antimicrobial agent 5804
- Chlorine wash,**
beef carcass 741
- Chloris gayana,**
Chloris striate mosaic disease 7128
Drechslera australiensis 2698
Drechslera chloridis 2698
Drechslera hawaiiensis 2698
- Chloris striate mosaic disease,**
cereals, Rhodes grass 7128
- 2-Chloro-1-(2,4-dichlorophenyl)vinyl dimethyl phosphate,**
soil, degradation 455
- 5-Chloro-2-(2,4-dichlorophenoxy)phenol,**
antibacterial agent, toilet bowl cleanser 6730 6731
bacteriostat, toilet bowl 4891
- 4-Chloro-2-cyclopentylphenyl**
beta-D-galactopyranoside,
enrichment medium, *Shigella*, *Escherichia coli* 8286
- 5-Chloro-7-iodo-8-hydroxyquinoline,**
Epidermophyton floccosum 2119
- 8-Chloro-10,11-dihydrodibenz(b,f)(1,4)oxazepine**
transformation, fungi 4137
- p-Chloro-m-cresol,**
bactericide 4653
- p-Chloro-m-cresolate,**
fungal adaptation, paper 4615
- p-Chloro-metacresol,**
monochloracetate esters, preservative 4614
- p-Chloro-metaxlenol,**
monochloracetate esters, preservative 4614
- 2-Chloro-N,N-diallylacetamide,**
degradation, soil microorganisms 5503
- alpha-Chloro-o-acylbenzaldehyde,**
derivatives, slimicide, industrial water system 3891
- Chloroacetamide,**
cosmetic preservation 4698
- Chlorobenzene,**
variola virus 1242
- 4-Chlorobenzoic acid,**
degradation, *Arthrobacter* 4171
- Chlorobenzonitrile,**
sulphur-containing derivatives, bactericide/fungicide 8832
sulphur-containing derivatives, bactericide/fungicide, plant protection 8832
- 2-Chlorobenzonitrile,**
fungicide 2951
- Chlorobium,**
Spirillum, sulphur reduction 6458
- N-Chlorocarboxylic acid,**
derivatives, bactericide/fungicide 529
- Chlorocarcin A,**
Streptomyces lavendulae, antibacterial agent/antitumour antibiotic 2263 2264
- Chlorocarcin B,**
Streptomyces lavendulae, antibacterial agent/antitumour antibiotic 2263 2264
- Chlorocarcin C,**
Streptomyces lavendulae, antibacterial agent/antitumour antibiotic 2263 2264
- Chlorodicyano benzene,**
organosulphur derivatives, fungicide/bactericide 5595
- (2-Chloroethyl)-trimethyl-ammonium chloride,**
Trametes badia 1230
- 5-Chloroflexirubin,**
Flexibacter elegans 947C
- Chloroform,**
mycophage 3182
- Chlorogenic acid,**
apple, post-harvest decay resistance 343
potato, *Streptomyces scabies* 1975
- Chlorogonoplast,**
potato, *Streptomyces scabies* 1975
- alpha-Chloro ketone,**
Saccharomyces cerevisiae 7690
- Chlorolincosmycin,**
assay, *Bacillus stearothermophilus* 4719
- Chloromyces,**
triorganotin compounds/triorganolead compounds 2129
- Chloromycetin,**
Escherichia coli 3671
resistance, *Escherichia coli* 3671
- Chloromycorrhizin A,**
Monotropa hypopitys 60C4
Monotropa hypopitys mycorrhizal fungus 7437
- Chloroneb,**
resistance, fungi 50G1
snow mould fungi, turfgrass 4485
- Chloroperoxidase,**
immobilization 4057
- 4-Chlorophenol,**
3,5-dimethyl-, germicide 3934
- p-Chlorophenylacetate,**
degradation, *Arthrobacter* 120
- Chloropicrin,**
+ methyl bromide, *Verticillium albo atrum*, pistachio 5362
partial soil sterilant, *Plasmodiophora brassicae*, crucifer 5424
Plasmodiophora brassicae, cabbage 6358
soil fumigation, bacteria 458 459
soil fumigation, *Fusarium oxysporum*, spinach 1951
soil fumigation, *Pythium*, spinach 1951
soil/perennial ryegrass rhizoplane microflora 457

Subject index

Chloroplast,

microbial, immobilisation, calcium alginate gel 6819

Chlorothalonil,

+ ethephon, *Alternaria solani*/*Alternaria tenuis*/Colletotrichum, tomato 8805
Alternaria alternata, Kadota fig post-harvest decay 9914
Botrytis allii, onion 6360
Botrytis cinerea, onion 6360
Botrytis squamosa, onion 6360
Cercospora arachidicola, peanut 2016
Cercosporidium personatum, peanut 2016
Diplocarpon rosae, rose 2806
fungicide, plant protection 2016
Gnomonia leptostyla, black walnut 10016
Lophodermium pinastri, red pine 1145
Lophodermium pinastri, Scots pine 1145 8849
Puccinia arachidis, peanut 8612
Rhizoctonia solani/*Pythium aphanidermatum*, cucumber 380
Septoria avenae, wheat 4488
Septoria leucanthemi, Killian daisy 3570
Septoria nodorum, wheat 4488
Septoria tritici, wheat 4488
snow mould fungi, turfgrass 4485
sprinkler irrigation system, *Alternaria solani*, potato 7970

Chlorothalonil,

Neovossia horrida, rice 9961

Chloroxylenol,

alcoholic, antiseptic 8252

Chlorpromazine,

antibacterial agent 8980
assay, *Bacillus subtilis* 5840
poliovirus 1252
resistance, *Escherichia coli* 6471

Chlorpropham,

degradation, soil microorganisms 5503
Oospora pustulans, potato post-harvest decay 6325
soil microorganisms 2087

Chlortetracycline,

see also Aureomycin 4711
+ cerium, spectrophotometry assay 9109
+ potato dextrose agar, fungi, food 1591
animal bones 165
animal feed, turbidimetric assay,
Staphylococcus aureus 950
assay 9033
Brucella 7420
chicken feed, *Mycoplasma synoviae* 951
fluorimetry 4783
Kainkape disease, coconut palm 2821
milk, assay, *Sarcina lutea*/*Sarcina lutea* 5206
milk, thin-layer chromatography 1722
Mycobacterium citreum 9110
Mycoplasma, witches' broom, *Angelonia salicariaefolia* 3500
ophthalmic ointment, sterility testing 1294
pig feed, *Salmonella typhimurium* 206
polarography 3053
resistance, *Escherichia coli* 5541 8964
resistance, *Escherichia coli*, antibiotics 2098
resistance, *Salmonella typhi*, antibiotics 2098
resistance, *Staphylococcus aureus* 5541 8964
Staphylococcus 1308
Streptomyces aureofaciens 3760 3795 4784
Streptomyces aureofaciens, acridine orange 3794
Streptomyces aureofaciens, adenylate kinase 3297
Streptomyces aureofaciens, amylase 3252 3253 3254
Streptomyces aureofaciens, DNA 8173
Streptomyces aureofaciens,
guanyloribonuclease 3282

Chlortetracycline(Contd),

Streptomyces aureofaciens, nucleoside diphosphokinase 3297 3298
Streptomyces aureofaciens ribosomes 3793
Streptomyces aureofaciens, RNA/ribosomes 3792
turkey feed, *Salmonella typhimurium* 7041
vitamins/nicotinamide/p-aminobenzoic acid 2991

Chlorthalonil,

Verticillium fungicola, mushroom 2017

Choanephora,

cucumber, fungicide 380

Choanephora cucurbitarum,

culture, light 3199

sesame 8728

Chocolate agar,

selective medium, *Francisella tularensis* 7560

Choladienic acid,

3-oxo-23,24-dinor-1,4-, beta-sitosterol degradation, *Nocardia* 8401

Cholate,

butyl-p-hydroxybenzoate, antibacterial agent/antifungal agent 7317
hexametaphosphate, antibacterial agent/antifungal agent 7317
sodium chloride, antibacterial agent/antifungal agent 7317

Choleic acid,

Staphylococcus 7316

Cholera enterotoxin,

996

Cholera toxin,

3453 4017 4271 9742
structure 2644
toxoid 667

Cholera toxoid,

667

Cholera vaccine,

6666

0-antigen standardization 7458

potency assay, ferric ammonium citrate 3089

US opacity standard 3090

vibriocidal test 3630

Cholera gen,

4271 7099

structure 247

Vibrio cholerae 5284

Vibrio cholerae, lincomycin induction 5291

Cholera genoid,

Vibrio cholerae 7860

4-Cholesterol-3-one,

4-hydroxy-, reduction, *Mycobacterium phlei* 57

Cholesterologenesis inhibitor,

ML-236A, ML-236B, ML-236C, *Penicillium citrinum* 8431

Cholesterol,

degradation, *Actinomyces lavendulae* 5190
microbial cholesterol oxidase 4076

Cholesterol esterase,

Pseudomonas fluorescens 2456 5935

Cholesterol-lecithin liposome,

culture medium, *Mycobacterium* 2381

Cholesterol oxidase,

microbial 4076
Schizophyllum commune 9374

Cholesteryl esterase,

Staphylococcus aureus, alpha-toxin 5936 5937

Cholic acid,

deoxy-, derivatives, antibacterial agent 5565

derivatives, antibacterial agent 5564
Staphylococcus 7316

Choline dehydrogenase,

Pseudomonas aeruginosa 5938

Choline esterase,

Arthrobacter simplex 2457

Subject index

- Choline sulphokinase,**
Penicillium chrysogenum 9375
- Cholinesterase,**
Arthrobacter simplex, culture medium 22
- Cholylglycine hydrolase,**
Bacteroides fragilis 3260
- Chondroitin sulphatase,**
Bacteroides 3249
- Chondromyces apiculatus,**
 arid soil 2858
- Chondromyces crocatus,**
 arid soil 2858
- Chonemorpha macrophylla,**
Colletotrichum dematium 8595
Colletotrichum gloeosporioides 8595
- Chorismate mutase/prephenate dehydratase,**
Escherichia coli 4077 4078
- Choristoneura,**
 encapsulated nuclear polyhedrosis virus 6964
- Chromatium vinosum,**
 delta-aminolaevulinic acid, porphobilinogen 5154
 delta-aminolaevulinic acid, uroporphyrin III 5154
 lipopolysaccharide 4120
- Chromatography,**
 adsorption, controlled pore glass, interferon 4677
 adsorption, tick-borne encephalitis virus 10637
 affinity, *Aspergillus saitoi* proteinase 3311
 affinity, *Bacillus cereus* beta-lactamase 4095
 affinity, *Bacillus stearothermophilus* isocitrate dehydrogenase 6898
 affinity, blue dextran-Sepharose 4B, enzyme, *Lactobacillus* 1652
 affinity, blue dextran-Sepharose 4B, glucose 6-phosphate dehydrogenase, *Lactobacillus fermenti*/*Lactobacillus buchneri* 1652
 affinity, blue dextran-Sepharose 4B, lactate dehydrogenase, *Lactobacillus fermenti* 1652
 affinity, blue dextran-Sepharose 4B, 6-phosphogluconate dehydrogenase, *Lactobacillus fermenti* 1652
 affinity, *Clostridium perfringens* enterotoxin 1821 3448
 affinity, *Escherichia coli* chorismate mutase/prephenate dehydratase 4077
 affinity, *Escherichia coli* isoleucyl-tRNA synthetase, blue dextran-Sepharose 5074
 affinity, *Escherichia coli* membrane-associated phosphatidylglycerophosphate synthetase 5967
 affinity, *Escherichia coli* nucleotide phosphotransferase 9423
 affinity, *Escherichia coli* pyruvate oxidase 3315
 affinity, *Escherichia coli* ribosome-associated phosphatidylserine synthetase 5968
 affinity, F1 ATPase, *Micrococcus* species ATCC 398E 1635
 affinity, microbial alpha-amylase, *Actinomyces* alpha-amylase inhibitor 9357
 affinity, microbial NADP-dependent dehydrogenases 23
 affinity, microbial protease, carbobenzoxy-D-phenylalanyl-triethylenetetramine 5090
 affinity, NADP+-specific isocitrate dehydrogenase, *Escherichia coli* 1655
 affinity, *Proteus mirabilis* L-form DD-carboxypeptidase 4069
 affinity, *Saccharomyces cerevisiae* glyceraldehyde-3-phosphate dehydrogenase 2472
- Chromatography (Contd.),**
 affinity, *Streptomyces griseus* neuraminidase 9421
 affinity, *Streptomyces griseus* pronase, trypsin/carboxypeptidase-like enzyme 50
 affinity, thymidylate synthetase, *Escherichia coli* 1678
 affinity, virology 5866
Bacillus subtilis metalloendoproteinase 3291
 cellulose, aflatoxin M1, milk 7822
 column, ampicillin polymers 6580
 column, *Bacteroides fragilis* cholylglycine hydrolase 3260
 column, *Citrus exocortis* viroid 6164
 column, *Clostridium perfringens* toxin 993
 column, potato spindle tuber disease viroid 6164
 exclusion, Sephadex gel, virus indexing, plant disease 249
 gas, ethanol, alcoholic beverage 102
 gas, fatty acids assay, wort/beer/yeast 9510
 gas, fermentation, methanol/fusel oil 92
 gas, 5-fluorocytosine, serum 8080
 gas, internal standard, microbial products 7545
 gas-liquid, anaerobic bacterium identification test 10549
 gas-liquid, bacterial products, milk 919
 gas-liquid, bacterial products, phosphorus pentoxide 1558
 gas-liquid, chloramphenicol, agricultural crops 4771
 gas-liquid, + electron-capture detector, sterigmatocystin, cereal 7074
 gas-liquid, lactose, yoghurt 7743
 gas-liquid, microbiology 2410
 gas-liquid, patulin, *Penicillium urticae* 7071
 gas-liquid, stable column, *Salmonella enteritidis* cell wall lipid fatty acid 6787
 gas, + mass spectrometry, mycophenolic acid, *Penicillium brevicompactum* 811
 gas, microbial culture 5882
 gas, microbiology 798
 gas, organic solvents, antibiotics 2164
 gas, *Streptococcus mutans* fatty acids 5889
 gas, zearalenone 242
 gel, brewing industry 91
 gel, *Salmonella typhi* endotoxin 9737
 high-performance liquid, aflatoxins 5263 9698
 high performance liquid, aflatoxins, cottonseed 7816
 high-performance liquid, *Agrobacterium tumefaciens* cytokinin 5992
 high performance liquid, cephalosporin C 5650
 high performance liquid, cephalosporin C, *Cephalosporium acremonium* 5650
 high-performance liquid, chloramphenicol intermediates 6600
 high-performance liquid, mycotoxins 5263
 high performance liquid, penicillic acid + patulin, food 8570
 high-performance liquid, penicillium 2179
 high-performance thin layer, gramicidin 5738
 high-pressure liquid, aflatoxins 9696
 high-pressure liquid, aflatoxins, peanut 1807
 high-pressure liquid, cafazolin assay 5653
 high-pressure liquid, cephalosporins, partition coefficient 10248
 high-pressure liquid, gentamicin assay, serum 7414
 high-pressure liquid, + laser fluorimetry, aflatoxins 9697
 high-pressure liquid, netilmicin assay, serum 7414
 high-pressure liquid, penicillins, partition coefficient 10248

Subject index

Chromatography (Contd),

- high pressure liquid, pimaricin, cheese 8541
- high-pressure liquid, sisomicin assay, serum 7414
- high-pressure liquid, zearalenone 242
- high-speed liquid, *Aspergillus versicolor* avertin 6146
- high-speed liquid, *Aspergillus versicolor* 6,8-O-dimethylversicolorin 6146
- high-speed liquid, *Aspergillus versicolor* 6-deoxyversicolorin A 6146
- high-speed liquid, *Aspergillus versicolor* 6,8-O-dimethylaverufin 6146
- high-speed liquid, *Aspergillus versicolor* dimethylsterigmatocystin 6146
- high-speed liquid, *Aspergillus versicolor* 5-methoxysterigmatocystin 6146
- high-speed liquid, *Aspergillus versicolor* sterigmatin 6146
- high-speed liquid, *Aspergillus versicolor* sterigmatocystin 6146
- liquid column, aflatoxin B1/aflatoxin B2 232
- membrane, enterovirus 4005
- minicolumn, aflatoxin B1, peanut 3433
- minicolumn, aflatoxins 2621
- minicolumn, ochratoxin A 2621
- permeation, controlled pore glass, plant viruses 9299
- pyrolysis gas-liquid, *Bacillus*, culture medium 7547
- pyrolysis gas-liquid, cephalosporins 5636
- pyrolysis gas-liquid, microorganisms 1550
- pyrolysis gas-liquid, penicillins 5636
- reverse phase high-performance liquid, cephalixin 10285
- reverse phase high-performance liquid, cephradine 10285
- reversed-phase high performance liquid, aflatoxins, wine 6134
- reversed-phase high-performance liquid, bleomycin 3063
- substrate elution, *Pseudomonas* carboxypeptidase G 4070
- thin-layer, aflatoxin B1 230 231
- thin-layer, aflatoxin E1, animal feed, ethoxyquin 6132
- thin-layer, aflatoxin B1, cereal 3430
- thin-layer, aflatoxin B1, peanut 3433
- thin-layer, aflatoxin B2 230
- thin-layer, aflatoxin G1 230
- thin-layer, aflatoxin G2 230
- thin-layer, aflatoxin M1 230 984
- thin-layer, aflatoxin M1 + aflatoxin B1 assay, milk/dairy product 7059
- thin-layer, aflatoxin M1, milk 7822
- thin-layer, aflatoxins 8557
- thin-layer, aflatoxins, corn 6135
- thin-layer, aflatoxins, corn/wet milled corn products 8566
- thin-layer, aflatoxins, xylitol 8556
- thin-layer, *Amanita phalloides* alpha-amanitin assay 7064 7064
- thin-layer, anaerobic bacteria 9262
- thin-layer, antibiotic residues, milk 1722
- thin-layer, antitumour antibiotic 7676
- thin-layer, brewing, saccharides 8441
- thin-layer, cladinoses, erythromycin/erythromcyclamine 6605
- thin-layer, erythromycin stearate 4776
- thin-layer, methylcladinoses, erythromycin/erythromcyclamine 6605
- thin-layer, mycolic acid, *Corynebacterium* 3175
- thin-layer, ochratoxin A, cereal 3430
- thin-layer, ochratoxin B, cereal 3430
- thin-layer, patulin, apple juice 8572 9717
- thin-layer, pimaricin, cheese 8541
- thin-layer, rifamicin B 1374
- thin-layer, rifamycins 9098

Chromatography (Contd),

- thin-layer, sterigmatocystin, cereal 3430
- thin-layer, sterigmatocystin, cereal grains 7834
- thin-layer, zearalenone 242
- Chromatophore,**
 - Rhodospirillum rubrum*, ATP 2521
 - Rhodospirillum rubrum*, immobilization, polyacrylamide 2415
- Chrome-copper-boron,**
 - wood preservative, *Coniophora puteana*/Serpula lacrymans/*Poria vaporaria* 4551
- Chrome-copper-fluorine,**
 - wood preservative, *Coniophora puteana*/Serpula lacrymans/*Poria vaporaria* 4551
- Chrome-fluorine-arsenic,**
 - wood preservative, *Coniophora puteana*/Serpula lacrymans/*Poria vaporaria* 4551
- Chromolospodium fulvum,**
 - Crambe abyssinica*, fungicide 8691
- Chromium,**
 - mutagenicity assay, *Salmonella typhimurium* 7575
 - tannery wastewater, activated sludge treatment 9187
- Chromobacterium,**
 - green rotten eggs 163
- Chromobacterium janthinum,**
 - industrial product pollution 4848
- Chromobacterium lividum,**
 - animal waste treatment, methane + animal feed 6714
 - automated aseptic sampling + storage system 4916
 - metallo-proteinase 2500
- Chromobacterium violaceum,**
 - cyanide 2536
 - cyanide resistance 2536
 - penicillins/cephalosporins resistance, beta-lactamase 3673
- Chromobacterium viscosum,**
 - lipase, assay 1476
- Chrysanthemum,**
 - Alternaria* 4379
 - gynura latent virus 8697
 - Oidium chrysanthemi* 304
 - Phoma chrysanthemicola*, plant protection, fertilizer 4481 4482
 - Rhizoctonia solani* 9856
- Chrysanthemum aspermy,**
 - chrysanthemum, plant tissue culture 9950
- Chrysanthemum aspermy virus,**
 - Chrysanthemum morifolium* 5369
- Chrysanthemum chlorotic mottle,**
 - Chrysanthemum morifolium* 5369
- Chrysanthemum chlorotic mottle virus,**
 - chrysanthemum, plant tissue culture 9950
- Chrysanthemum cinerariaefolium,**
 - Phoma herbarum* 1909
- Chrysanthemum maximum,**
 - Septoria leucanthemi*, fungicide 3570
- Chrysanthemum morifolium,**
 - Agrobacterium tumefaciens*, antibacterial agent 1920
 - Chrysanthemum aspermy virus* 5369
 - Chrysanthemum chlorotic mottle* 5369
 - Chrysanthemum mosaic virus* 5369
 - Chrysanthemum stunt* 5369
- Chrysanthemum mosaic virus,**
 - Chrysanthemum morifolium* 5369
 - chrysanthemum, plant tissue culture 9950
- Chrysanthemum stunt,**
 - Chrysanthemum morifolium* 5369
- Chrysanthemum stunt virus,**
 - chrysanthemum, plant tissue culture 9950
- Chrysophrys auratus,**
 - bacteriology 4214
- Chrysosporium inops,**
 - oil palm kernels 4220

Subject index

- Chrysosporium lignorum**,
benzisothiazolinone + quaternary ammonium
compound 4627
cellulose pulp 1707
- Chrysosporium pannorum**,
mine rubberized ventilation tube 4180
- Chrysosporium pruinsum**,
wood 7242
- Chuangxinmycin**,
Actinoplanes tsinanensis, antibacterial agent
10363
- Chufa**,
Puccinia romagnoliana 997
- Chymotrypsin**,
ester synthesis 3261
- Chymotrypsin inhibitor**,
Actinomyces 6962
- Ciba 1906**,
Mycobacterium intracellulare 10132
- Cicer arietinum**,
+ *Azotobacter chroococcum*, nodulation,
nitrogen fixation 5495
+ *Beijerinckia indica*, nodulation, nitrogen
fixation 5495
+ *Rhizobium*, nitrogen fixation 2080 4582
+ *Rhizobium*, nitrogen fixation, nodulation
5496 6444
+ *Rhizobium*, nitrogen fixation, proteins
2883
+ *Rhizobium*, nodulation, nitrogen fixation
5495 8029
+ *Rhizobium*, soil microorganisms 3646
Ascochyta rabiei 1850 2675
Ascochyta rabiei, fungicide 2799
Fusarium orthoceras 7871
Helminthosporium carbonum, phytoalexin 6348
operculella padwickii 264 7112
Ozonium texanum 1039
pea leaf roll virus 2667
Uromyces ciceris-arietini, phyllosphere fungi
3465
- Cicinobolus cesatii**,
Oidium Adenostemma viscosum 2665
- Cicuta virosa**,
celery mosaic virus 3499
- Cider**,
Lactobacillus mali, *Lactobacillus*
yamanashiensis, wine 6975
patulin, activated charcoal 1809
patulin, sulphur dioxide 7829
Zymomonas 6974
- Cinemicrography**,
vertical plane, specimen housing unit 1544
- Cineraria**,
Puccinia lagenophorae 6250
- Cinerubin**,
+ ultraviolet radiation/mitomycin c,
bactericide 5747
- Cinerubin A**,
bacterial reduction 1383
- Cinnamamide**,
antibacterial agent 7320
- Cinnamate**,
dimethylaminoethyl- α -phenyl-,
antibacterial agent 6502
- Cinnamic acid**,
derivatives, methylation, *Lentinellus* 8432
derivatives, methylation, *Lentinus* 8432
hydroxy-, degradation, *Polyporus circinata*
121
- Cinnamic aldehyde**,
Aspergillus parasiticus, aflatoxins 10142
- Cinnamomum tamala**,
Colletotrichum gloeosporioides 3615
- Cinnamon oil**,
antifungal agent, plant protection 386
Aspergillus parasiticus, aflatoxins 10142
- Cinnamyl phenol**,
antibacterial agent/antifungal agent 532
- Cinoxacin**,
Salmonella/Shigella 7380
Shigella flexneri 4662
Shigella sonnei 4662
- Circaea lutetiana**,
cucumber mosaic virus 3507
- Circinella**,
bakery dust 9172
 α -galactosidase 9391
- Circinella mucroides**,
 α -galactosidase 9391
- Circinella muscae**,
 α -galactosidase 9391
oil palm kernels 4220
- Circular dichroism**,
actinomycin D 9119
penicillin derivatives 7404
polyene antibiotics, hemiketal structure
5703
- Circulifer tenellus**,
beet curly top virus, sugarbeet, tomato 9891
- Cirramycin A1**,
Streptomyces cirratus 631
- Cirramycin B1**,
Streptomyces cirratus 631
- Cirrasol FP**,
degradation, activated sludge bacteria 1709
1710
polyester fibre industry waste, microbial
degradation, activated sludge 3861
- Cirrasol SF**,
polyester fibre industry waste, microbial
degradation, activated sludge 3861
- Cirrasol SF20**,
degradation, activated sludge bacteria 1709
1710
- Cirrasol TCS**,
degradation, activated sludge bacteria 1709
1710
polyester fibre industry waste, microbial
degradation, activated sludge 3861
- Cirsium**,
Puccinia suaveolens 6250
- Cirsium oleraceum**,
clovers yellow type disease, mycoplasma-like
organism 4295
- Cirsium vulgare**,
tobacco etch virus 1936
- Cissus antarctica**,
Glomerella cingulata 1921
- Cissus elongata**,
Aecidium teeae 2662
- Citcop 4E**,
Melampsora larici-populina, poplar 2047
- Citral**,
fungi, wheat seed 407
- Citral caproate**,
barley grain preservation, *Aspergillus*
candidus, pig feed 9908
- Citrangle**,
mycoplasma diseases 8662
virus diseases 8662
- Citrangle stunt**,
Citrus 8662
- Citrate**,
cheese, starter bacteria 6047
isolation medium, *Clostridium sphenoides*
7554
- Citrate lyase**,
Streptococcus faecalis 2458
- Citrate synthase**,
Bacillus megaterium 4079
Bacillus stearothermophilus 2459 3262
bacterial 4079
Candida albicans 5914
Dictyostelium discoideum 9376
Escherichia coli 4079
Rhodospirillum rubrum 3262
- Citreoviridin**,
Penicillium citreo-viride 8568

Subject index

Citreoviridin(Contd),

ultraviolet-densitometry/fluorodensitometry 6142

Citric acid,

Aspergillus foetidus, brewery waste 7598
Aspergillus oryzae 8314
Aspergillus niger 808 1624 1625 3227 5019
 5020 5887 8315 8316
Aspergillus niger, ultrasound 8308
Aspergillus terreus 808
Candida 9325
Candida lipolytica 5021 5022 9326
Candida lipolytica, paraffin 3663 5022
Candida, tetradecane oxidation 10103
Candida tropicalis 9326
Candida zeylandoides 9325
 Domiat cheese 5226
 microbial 9501
Vibrio parahaemolyticus 1763

Citrinin,

9688
 animal mycotoxins 3427
 copper 4795
 glutamate dehydrogenase 9711
 grain 7056
 human cell culture, cytocide 5260
Penicillium expansum 7069
Penicillium viridicatum, stored rice 9690
Pythium ultimum, anti-cholesterol agent,
 hypocholesterolemic agent 5727

Citrobacter,

amikacin 3758 7427
 aminoglycoside antibiotics 1319
 antibacterial agent 5752
 antibiotic sensitivity testing 7370
 antibiotics resistance 4632
 cephalosporin derivative FR10024 5661
 chemostat culture, *Methanobacterium*, methane
 8937
 drinking water 7497 10478
 garlic 10143
 gentamicin 3758
Haemophilus influenzae bactericidal factor
 6844
 high molecular weight closed circular DNA
 6937
 beta-lactamase, *Streptomyces* beta-lactamase
 inhibitor 7347
 methoxychlor degradation 8458
 microbial degradation 8458
 municipal water 7497
 netilmicin 1429 10392
 netilmicin/gentamicin/tobramycin 10393
 PathoTec system 7540
 phospholipase C, milk 5208
 sisomicin 3758 6651
 sulphamethoxazole-trimethoprim 2941
 sulphanilamide-metal complexes 10148
 terizidone 650 5555
 tests 1565
 tobramycin 3758

Citrobacter diversus,

antibiotic sensitivity testing 7370
 bile-esculin agar 9722
 cephalaxin/cephradine/cefactor 6578
 cephalosporin derivatives 5665
 MORLUC numeric system 1567
Neisseria gonorrhoeae 3990

Citrobacter freundii,

anthracycline antibiotic reduction 1383
 antibiotic sensitivity testing 7370
 L-asparaginase 6865
 L-asparaginase-glutaminase 6865
 culture medium 3970
 cysteine desulphydrase, L-cysteine 6829
 formic acid 8317
 lysine/ornithine/arginine degradation,
 Nessler's reagent 4936
 manganese concretion 8932
 milking machine/milking plant 7727

Citrobacter freundii(Contd),

MORLUC numeric system 1567
 netilmicin/gentamicin/amikacin 4741
 novobiotin selective medium 6785
 paper mill water system, nitrogen fixation
 1493
 rapid KCN-test 3170
 sewage, sodium dodecyl sulphate degradation
 2555

Citrobacter intermedius,

paper mill water system, nitrogen fixation
 1493

Citrobacter vaccine,

4842

Citron,

citrus exocortis virus 8663
Coniothyrium fusco-atrum 2663
 mycoplasma diseases 8662
 virus diseases 8662

DL-Citronellal,

reduction, fungi, L-citronellol 7685

Citronellol,

degradation, soil *Pseudomonas* 5192
 microbial menthylester hydrolase 7637

L-Citronellol,

DL-citronellal reduction, fungi 7685

Citrullus,

Colletotrichum lagenarium, copper compound
 2026

Citrullus lanatus,

alfalfa mosaic virus 2762
Sphaerotheca fuliginea 9906

Citrullus vulgaris,

see also *Citrullus lanatus*
Alternaria cucumerina 1964
 antiviral agent 8825
Colletotrichum lagenarium, fungicide 6357
 resistance, *Fusarium oxysporum* 3562
Sphaerotheca fuliginea 1056

Citrus,

Armillaria mellea, heat
 treatment/drying/biological control 1997
 canker 1043
 citrus crinkly leaf virus, citrus infectious
 variegation virus 9830
Diaporthe citri, copper compound 2026
Diaporthe citri, thioureicobenzene phosphates
 2014
 Elsinore fawcetti, thioureicobenzene
 phosphates 2014
 greening 1043
 greening, tetracycline 9986
Guignardia citricarpa post-harvest decay
 7188
 microbial disease, plant protection 5414
 Mosambi leaf crumbling virus 6243
 mycoplasma diseases 8662
Penicillium digitatum post-harvest decay,
 1-[beta-(allyloxy)-2,4-dichlorophenethyl]-im
 idazole 3541
Penicillium digitatum post-harvest decay,
 fungicide 4441
Penicillium italicum post-harvest decay,
 1-[beta-(allyloxy)-2,4-dichlorophenethyl]-im
 idazole 3541
Penicillium italicum post-harvest decay,
 fungicide 4441
Phoma tracheiphila, DL-p-fluorophenylalanine
 9975
Phoma tracheiphila, plant protection 9833
Phytophthora parasitica, irrigation water
 1902
 post-harvest decay, *Penicillium digitatum*,
 sec-butylamine 3709 3710
 virus diseases 3494 8662
 waste, activated sludge, chicken feed 1764
Xanthomonas citri, copper compound 2026
Xanthomonas citri, electron microscopy 9832
 young tree decline, plant protection 6374

Subject index

- Citrus aurantifolia,**
 Mosambi leaf crumpling virus 6243
 mycoplasma diseases 8662
 virus diseases 8662
Xanthomonas citri 1045 2723 6245
- Citrus aurantium,**
 mycoplasma diseases 8662
Phoma tracheiphila 9834
Phoma tracheiphila, electron microscopy 9876
Phoma tracheiphila, DL-p-fluorophenylalanine 9975
 virus diseases 8662
- Citrus crinkly leaf virus,**
 citrus 9830
- Citrus excelsa,**
 mycoplasma diseases 8662
 virus diseases 8662
- Citrus exocortis viroid,**
 column chromatography 6164
- Citrus exocortis virus,**
 citron 8663
- Citrus greening,**
 Citrus 8662
 mycoplasma-like organism 5353
 mycoplasma-like organism, sweet orange 5354
 mycoplasma-like organism, sweet orange, plant protection 5355
- Citrus infectious variegation virus,**
 citrus 9830
- Citrus jambhiri,**
 Mosambi leaf crumpling virus 6243
 young tree decline/sand hill decline 5357
- Citrus limon,**
 citrus crinkly leaf virus, citrus infectious variegation virus 9830
Fusarium oxysporum post-harvest decay, fungicide 9916
Geotrichum candidum post-harvest decay, 1-[beta-(allyloxy)-2,4-dichlorophenethyl]-imidazole 3541
 mal secco, *Phoma tracheiphila* phytotoxin 9835
 mycoplasma diseases 8662
Penicillium digitatum post-harvest decay, 1-[beta-(allyloxy)-2,4-dichlorophenethyl]-imidazole 3541
Penicillium italicum post-harvest decay, 1-[beta-(allyloxy)-2,4-dichlorophenethyl]-imidazole 3541
Phoma tracheiphila 9834
Phoma tracheiphila, plant protection 9833
 post-harvest decay, ethylene 347
 post-harvest decay, *Phytophthora citrophthora* 1969
 virus diseases 8662
- Citrus limonia,**
 Mosambi leaf crumpling virus 6243
- Citrus macrophylla,**
 mycoplasma diseases 8662
 virus diseases 8662
- Citrus macroptera,**
 tristeza virus 6244
- Citrus medica,**
 citrus exocortis virus 8663
Coniothyrium fusco-atrum 2663
- Citrus mosaic virus,**
Hibiscus rosasinensis 1934
- Citrus paradisi,**
Diaporthe citri, fungicide 2722
Fusarium lunulosporum post-harvest decay 8753
 Mosambi leaf crumpling virus 6243
 mycoplasma diseases 8662
 virus diseases 8662
- Citrus paradisi x Citrus reticulata,**
 virus diseases 3494
- Citrus producta,**
Lactobacillus brevis 6091
- Citrus reticulata,**
Alternaria citri 303
- Citrus reticulata(Contd),**
 citrus crinkly leaf virus, citrus infectious variegation virus 9830
Colletotrichum gloeosporioides 2724
Colletotrichum gloeosporioides post-harvest decay 7193
Colletotrichum gloeosporioides post-harvest decay, ethylene 5421
Geotrichum candidum post-harvest decay 4440
 Mosambi leaf crumpling virus 6243
Penicillium digitatum/*Penicillium italicum*/*Alternaria citri* post-harvest decay, fungicide DF-125 5400
Phytophthora nicotianae, fungicide 2724
 virus diseases 3494
- Citrus seedling yellows virus,**
 Citrus 8662
- Citrus sinensis,**
Botryodiplodia theobromae post-harvest decay 3542
 citrus crinkly leaf virus, citrus infectious variegation virus 9830
 citrus greening, mycoplasma-like organism 5354
 citrus greening, mycoplasma-like organism, plant protection 5355
 citrus mosaic virus, *Hibiscus rosasinensis* 1934
 1,3-dichloropropene, degradation, soil microorganisms, *Phytophthora parasitica* 10078
Diplodia natalensis post-harvest decay, fungicide 6318
Geotrichum candidum post-harvest decay 4578
Geotrichum candidum post-harvest decay, polygalacturonase, cellulase 9919
 little-leaf disease, *Spiroplasma citri* 7141
 Mosambi leaf crumpling virus 6243
 mycoplasma diseases 8662
Penicillium digitatum post-harvest decay, fungicide 6318
Phomopsis citri post-harvest decay, fungicide 6318
 post-harvest decay, *Geotrichum candidum*, fungicide 2771
 post-harvest decay, *Geotrichum candidum*, sodium o-phenylphenate 1972
Sclerotinia sclerotiorum post-harvest decay, fungicide 6318
Spiroplasma citri, leafhopper 9831
 virus diseases 8662
 yellow corky vein virus 1046
- Citrus stem pitting,**
 Citrus 8662
- Citrus stubborn disease,**
 Citrus 8662
 periwinkle 3517
- Citrus tatter leaf,**
 Citrus 8662
- Citrus tristeza virus,**
 aphid 2721
- Citrus vein enation virus,**
 Citrus 8662
- Citrus yellow vein virus,**
 Citrus 8662
- Citrus young tree decline,**
 plant protection 6374
- Cladinose,**
 erythromycin/erythromcyclamine, thin-layer chromatography 6605
 methyl-, erythromycin/erythromcyclamine, thin-layer chromatography 6605
- Cladonia stellaris,**
 air pollution indicator 3841
- Cladosporium,**
 8291
 cotton seed 2737
 cotylenin 81
 cotylenol 81

Subject index

Cladosporium (Contd),

- dental clinic water 10479
- frozen food 6026
- fuel tank, organic acids 4617
- fungi 110
- hexadecane degradation, heptachlor 4624
- large cardamon 4224
- latex paint film, surface disinfection 10092
- loganberry, post-harvest decay 6321
- paint film degradation 4176
- paint film degradation, enzymes 4177
- Parthenium hysterophorus
- rhizosphere/rhizoplane 3635
- peptidase 857
- plant diseases, resistance 3455
- quaternary ammonium compound 2961
- rice rhizosphere, pesticides 8916
- soybean 9596
- stored rapeseed 6326
- sugars/sugar alcohols 5593
- tomato juice, Clostridium botulinum/botulinum toxin 3446
- tomato, resistance 9946
- toxin, animal feed 1795
- triazino-benzimidazole derivatives, plant protection 3588
- willow 10019

Cladosporium carpophilum,

- isothiocyanate derivatives 3722

Cladosporium cladosporioides,

- Dactylium dendroides antibiotic 2237
- Diplocladium elegans antibiotic 2237
- frozen food 6026
- isoamyl acetate 7686 9477 9478
- isoamyl alcohol 7686
- wheat grain 9804

Cladosporium cucumerinum,

- acetylenic sulphones 512
- cucumber 7914
- fungicide resistance 5001
- plant diseases, resistance 4447
- triadimefon 3573
- triadimefon resistance 3572
- triarimol 3573
- triarimol resistance 3572
- triforine 296 3573
- triforine resistance 3572

Cladosporium echinulatum,

- garlic 6268

Cladosporium fulvum,

- tomato 8741 9901

Cladosporium herbarum,

- epsilon-caprolactam + alkanediamines 2318
- 1,2-dithiol-3-thione derivatives 8077
- fennel rhizosphere, subamycin 2863
- fungicide 2053
- guanidine derivatives 8041
- lodgpole pine dwarf mistletoe 4543
- paper degradation 2551
- plastics degradation 2553
- wheat 6233

Cladosporium lignicolum,

- 8-chloro-10,11-dihydrodibenz(b,f)(1,4)oxazepine transformation 4137

Cladosporium martianoffinum,

- white poplar 2046

Cladosporium oxysporum,

- jujub 1000
- pepper 1000
- pomegranate 1000
- pomegranate post-harvest decay 4443
- Strychnos noxvomica post-harvest decay 8761

Cladosporium phlei,

- p-coumarate decarboxylase 2460
- timothy grass 7875 8641

Cladosporium resiniae,

- aircraft fuel 476
- aircraft fuel, fungicide 7288
- alkane 5520
- antibiotic A23187 2239

Cladosporium resiniae (Contd),

- bis(diphenylaminomethane) derivatives 1265
 - fungicide, aviation fuel 7345
 - hexadecane 2094
 - hydrocarbon fuel, 1,1C-phenanthroline 475
 - jet fuel 10104
- ## Cladosporium sphaerospermum,
- fungicide, paint 7345
 - potato, rishtin/lyutimin 4495
- ## Cladosporium tenuissimum,
- fennugreek 1017

Clam,

- coliform/Salmonella 188
- microorganisms 9585

Classic fowl plague virus,

- adamantane derivatives 4681

Classification,

- xantham gum, microbial protease 5111

Clasterosporium carpophyllum,

- stone fruit trees 9817

Claviceps,

- alkaloid, 5-fluor-D,L-tryptophan 5576
- alkaloid, 5-fluoroindole 5576
- dimethylallylpyrophosphate:L-tryptophan dimethylallyl transferase 3269
- enzymes 6815
- ergot alkaloid 9467
- 5-fluor-D,L-tryptophan 5576
- 5-fluoroindole 5576
- soil 3632

Claviceps fusiformis,

- pearl millet 8643

Claviceps microcephala,

- bajra 2692
- pearl millet 1021

Claviceps oryzae-sativae,

- rice 7887

Claviceps paspali,

- ergot, animal feed 972

Claviceps purpurea,

- barley, barley stripe mosaic virus 2688
- cereal 4317
- ergot 973 5126
- ergot, animal feed 972
- honeydew, antifungal agent 4323
- mutagen, nitric acid 4981
- rye 1882
- rye, ergot 1883
- ryegrass 4317
- soil 3632
- sugarcane 3486
- wheat 288 4317
- wheat, resistance 4450

Claviceps,

- rye, ergot 1883

Claviceps,

- ryegrass 4317

Claviceps,

- soil 3632

Claviceps,

- sugarcane 3486

Claviceps,

- wheat 288 4317

Claviceps,

- wheat, resistance 4450

Claviceps,

- yeasts 2170

Clavulanic acid,

- Streptomyces clavuligerus, bacterial beta-lactamase inhibitor 3347 8178

Clay,

- minerals, cadmium, antibacterial agent/antifungal agent 6455

Climate,

- microbial plant disease 4289

Clindamycin,

- + amikacin 4794
- + gentamicin, Bacteroides fragilis 10261
- + gentamicin, Escherichia coli 10261
- + netilmicin, antibacterial agent 1428
- Actinomyces israelii 7369
- alpha-haemolytic Streptococcus 4728
- anaerobic bacteria 2994 7375 9038
- anaerobic bacteria, antibiotic sensitivity testing 2165
- antibacterial agent 2190 6546
- antibacterial agent, antibiotic sensitivity testing 9035
- antibiotic sensitivity testing 5625
- antibiotic sensitivity testing, blood culture 551
- Arachnia propionica 7369

Subject index

Clindamycin (Contd),

Bacteroides fragilis 2166 2996 10261
Clostridium perfringens 7371
Corynebacterium minutissimum 1306
Corynebacterium parvum 1306
Escherichia coli 10261
Flavobacterium meningosepticum 4850
melanin 1303
Propionibacterium acnes 1306 5630
Propionibacterium avidum 1306
Propionibacterium granulosum 1306
radioimmunoassay 3788
sensitivity testing, anaerobic bacteria 10232

sensitivity testing, anaerobic bacteria,
Wilkins-Chalgren medium 10229

Staphylococcus, anaerobiosis 9044

Staphylococcus aureus 3002

Staphylococcus hyicus 3002

Streptococcus group D 5634

Streptococcus viridans 5634

Clinical laboratory,

quality control 2405

Clinicalite,

regeneration, bacterial nitrification 8218
8219

Clintonia noliinae,

Nolina microcarpa 5381

Clitocybe nebularis,

protensterol 5105

Clitocybe tabescens,

4530

apple, plant protection 7136

Clitoria ternatea,

Clitoria yellow vein virus 6181

Clitoria yellow vein virus,

Abrus precatorius 6181

butterfly bean 6181

okra 6181

Papilionaceae 6181

Solanaceae 6181

Clofazimine,

Mycobacterium marinum 2928

Clofibrate,

antibacterial agent/antifungal agent 7346

Cloflucarban,

soap, antibacterial agent 4906

Cloning,

Micromonospora 785

microorganisms 785

Clorox,

Fusarium oxysporum/Phoma betae, sugarbeet
seed 332

Closet,

waste treatment 5787

Clostracin 0,

Clostridium saccharoperbutylacetonicum 3065
3066 3067

Clostridium,

abattoir, disinfectant 4897

animal feed 947

antibiotics 2994 4721

bacteriocins 2439

blood agar medium 3956

carbonamidoquinoxaline-di-N-oxide derivatives
1226

catalase culture medium 7552

cephalosporin derivatives 7394

chlorine compounds, canned food cooling water
1780

culture, amorphous ferrous sulphide 6765

D-cycloserine bitartrate medium 3377

12-dehydroxylase, 12-dihydrosteroids 867

ethanolamine ammonia-lyase 3270

food, Streptococcus group D enterocins 2559

gas-liquid chromatography, phosphorus

pentoxide 1558

heat-resistant, scalding tank water 1530

josamycin 640

josamycin/rosamicin/clindamycin 2190

Clostridium (Contd),

3-keto-5-aminohexanoate cleavage enzyme 7632

meat, meat-stripping machine hygiene 8258

miniaturized counting technique 4935

nisin, dairy industry 8540

peptidoglycan 4040

potato post-harvest decay 9920

preservation 4703

quinolizine-2-carboxylic acid derivatives
4694

river water 3133 4876

roll-streak method 1556

sewage sludge, hydrogen utilization 9203

sewage, ultraviolet radiation 1466

slimicide, industrial water system 3124

soil, nitrogen fixation 2058

starch, gamma-irradiation 7024

sterility indicator, rendering plant 9682

Streptomyces orientalis 3082

swine faeces,

culture/isolation/identification medium
4938

thiamphenicol/chloramphenicol 9096

tinidazole/metronidazole 8069

Tribrissen (sulphadiazine + trimethoprim)
2939

vacuum-packed bacon 180

Clostridium acetobutylicum,

acetone 6955

butanol 6955

culture 5164

enzymatically-active protein cell membrane
complex 5912

Clostridium acididurici,

ferredoxin 5032

purine degradation 119

Clostridium beijerinckii,

urease assay 8271

Clostridium bifementans,

animal feed 947

culture medium, antibiotic sensitivity
testing 6764

peptidoglycan 4040

spores, hydrogen peroxide 2933

tests, impregnated disc method 10548

Clostridium botulinum,

alkyltin cyclopropyl derivatives 1260

antibody, radioimmunoassay 3971

benzo-1,2,4-triazines 1225

benzotriazine-1,4-dioxide derivatives 2091
2118

blue crab meat 7019

blue crab pasteurisation 9683

canned meat, nitrite 9678

caseinolytic enzyme 6919

chlorine compounds, canned food cooling water
1780

cooked meat medium 10554

cucumber pickle, acetic acid 221

D-cycloserine bitartrate medium 3377

fermented meat product 6082

fish 9586

food 2641

food poisoning 125 1713

irradiation 212

gamma-irradiation, food radappertization
9661

meat, enumeration medium 7765

neurotoxin 1829

peptidoglycan 4040

phage, toxin 244

progenitor toxin 9727

proteolytic enzyme 6919

soil 5474

starch, gamma-irradiation 7024

tomato juice 9609

tomato juice, heat resistance 9687

toxin 1813 2639 2640 5285 6149 6919 7081
7850

toxin, activation, nicking 9729

Subject index

- Clostridium botulinum(Contd),**
 toxin, blue crab meat 7019
 toxin, canned food, mould 3447
 toxin, crystallization 7082
 toxin, degradation, rumen bacteria 3445
 toxin, food 3223
 toxin, immunofluorescence adsorption microtest 954
 toxin, irradiated/non-irradiated vacuum-packaged trout 7851
 toxin, Kamaboko 1214
 toxin, molecular weight 7842
 toxin, mouldy tomato juice 3446
 toxin, serotyping 8580
 toxin, water, chlorine disinfection 6718
 toxins 9728
 toxins, food 9730
 toxoid 7852
 vacuum-packed bacon 180
- Clostridium botulinum vaccine,**
 9313
- Clostridium butylicum,**
 soil, nitrogen fixation 2058
- Clostridium butyricum,**
 ferredoxin 5032
 hornbeam 417
 immobilized, hydrogen 1696
 soil, nitrogen fixation 2058
 tests, impregnated disc method 10548
- Clostridium cadaveris,**
 culture medium, antibiotic sensitivity testing 6764
 thiamphenicol/chloramphenicol 9096
- Clostridium chauvoei,**
 maltase 4098
 maltose permease 4098
 sporulation medium 9270
- Clostridium chauvoei vaccine,**
 9313
- Clostridium cylindrosporium,**
 purine degradation 119
- Clostridium fallax,**
 animal feed 947
 maltose permease 4098
- Clostridium formicoaceticum,**
 culture medium, titanium citrate 4934
- Clostridium haemolyticum vaccine,**
 9168
- Clostridium histolyticum,**
 antibiotics 9039
 D-cycloserine bitartrate medium 3377
 peptidoglycan 4040
- Clostridium innocuum,**
 culture medium, antibiotic sensitivity testing 6764
- Clostridium innocuum,**
 urease assay 8271
- Clostridium multi fermentans,**
 animal feed 947
- Clostridium novyi vaccine,**
 9168
- Clostridium oedematiens,**
 animal feed 947
 toxin, molecular weight 7842
 toxoid, silica gel purification 4272
- Clostridium oedematiens vaccine,**
 9168 9313
- Clostridium oroticum,**
 dihydroorotase 1650
- Clostridium pasteurianum,**
 ferredoxin 5032
 pyruvate-ferredoxin oxidoreductase 1673
- Clostridium perfringens,**
 see also Clostridium welchii
 N-acetylneuraminase lyase 5915
 animal faeces 4564
 animal feed 947 7781 7782
 antibiotic sensitivity testing 2165
 antibiotics 5628 7371
- Clostridium perfringens(Contd),**
 automated aseptic sampling + storage system 4916
 bacteriocin, mitomycin C 8328
 blood agar medium 3956
 chicken manure, composting 8222
 comminuted turkey meat 6073
 cottonseed food product 5201
 culture medium 2376
 culture medium, antibiotic sensitivity testing 6764
 D-cycloserine bitartrate medium 3377
 12-dehydroxylase, 12-dihydrocosteroids 867
 enterotoxin 2645 7084 9731
 enterotoxin, affinity chromatography 1821 3448
 enterotoxin, culture medium 7085
 enterotoxin, food 9532
 enterotoxin, immunofluorescence 7853
 enterotoxin, polyacrylamide gel electrophoresis 9732
 enterotoxin, welchii 7854
 exotoxin, proteinase/collagenase/gelatinase 8521
 fermented meat product 6082
 food 908 3373 6027 6985 9532
 food, enumeration medium 7721
 food poisoning 125 1713
 fresh/frozen seafood 9585
 frozen ground beef, tryptose-sulphite-cycloserine agar pour plate/liquid sulphite medium 6079
 gardimycin 1419
 glutamic decarboxylase test 4929
 ground beef 7015
 haemolysin 1830
 hospital food 126
 12alpha-hydroxysteroid dehydrogenase 3285
 3alpha-hydroxysteroid dehydrogenase 3285
 7alpha-hydroxysteroid dehydrogenase 3285
 imidazole derivatives 2137
 imidazolyl-alkyl-hydrogen monothiosulphate derivatives 1221
 josamycin 640
 lincomycin resistance 1208
 luncheon meat 9578
 lysin, antibacterial agent 7687
 masking/masked toxins 6151
 modified plate holding system 10547
 nitroimidazole derivatives 1270
 nucleoside phosphotransferase, assay, fluorometry 7641
 peptidoglycan 4040
 phospholipase C 1830 7083
 polytropic diagnostic tuber 9259
 pork 2581
 poultry carcass 2578
 poultry, food poisoning 6071
 redox potential 127
 refrigerated/frozen meat/poultry 7766
 rendering plant system sterilisation 6119
 selective medium 7553
 soil 4564
 soybean food product 5201
 spices 4223
 6-spirocycloalkylamino 5-nitropyrimidine derivatives 2947
 starch, gamma-irradiation 7024
 tests, impregnated disc method 10548
 thiamphenicol/chloramphenicol 9096
 ticarcillin/cefotaxime/carbenicillin/cephalotin/penicillin/metronidazole/clindamycin/chloramphenicol/clindamycin/chloramphenicol 7375
 toxin 993 1813
 delta-toxin 8582
 theta-toxin 6150
 toxin, animal feed 7781 7782
 toxin, molecular weight 7842
 alpha-toxin, toxoid 7855

subject index

- Clostridium perfringens(Contd),**
 toxin, vaccine 9171
 beta-toxin, vaccine 9170
 epsilon-toxin, vaccine 9170
 toxoid, silica gel purification 4272
 transport system 5837
 tyrosine decarboxylase/histidine
 decarboxylase 8493
 vacuum-packed bacon 180
Clostridium perfringens vaccine,
 9169 9170 9171 9313
Clostridium plagarum,
 Clostridium perfringens Lysin 7687
Clostridium ramosum,
 antibiotic sensitivity testing 10232
 culture medium, antibiotic sensitivity
 testing 6764
Clostridium saccharoperbutylacetonicum,
 clostocin 0 3065 3066 3067
Clostridium septicum,
 maltase 4098
 maltose permease 4098
 modified plate holding system 10547
 peptidoglycan 4040
 thiamphenicol/chloramphenicol 9096
 alpha-toxin, toxoid 8583
Clostridium septicum vaccine,
 9313
Clostridium sordelli,
 animal feed 947
Clostridium sordelli vaccine,
 9313
Clostridium sphenoides,
 citrate isolation medium 7554
 hexachlorocyclohexane degradation 8456
 maltase 4098
Clostridium sporogenes,
 animal feed 947
 bactericide/sporicide, sterilisation 5602
 bacteriology 1749
 food 9730
 maltase 4098
 meat preservation 9679
 meat product 1749
 peptidoglycan 4040
 selenium assay 10555
 spores, nisin 1430
 starch, gamma-irradiation 7024
 tests, impregnated disc method 10548
Clostridium tartarivorum,
 ferredoxin 5032
Clostridium tertium,
 animal feed 947
Clostridium tetani,
 antigen 3833
 bactericide/sporicide, sterilisation 5602
 benzo-1,2,4-triazines 1225
 benzotriazine-1,4-dioxide derivatives 2091
 2118
 toxin 1813 2654
 toxin, molecular weight 7842
 toxin, toxoid 7847
 toxoid, human immunoglobulin 3834 3835
Clostridium tetani vaccine,
 3833 9313
 human immunoglobulin antitoxin 3834 3835
Clostridium thermoaceticum,
 ferredoxin 7604
Clostridium thermocellum,
 cellobiose fermentation 6014
 cellulose fermentation 6014
Clostridium tyrobutyricum,
 milk, enrichment/confirmatory medium 917 918
Clostridium vaccine,
 9166 9167 9313
Clostridium welchii,
 see also Clostridium perfringens
 12-dehydroxylase, 12-dihydrosteroids 867
 meat 6746
 spores, nisin 1430 1433
Clostridium welchii(Contd),
 virginiamycin 2275
Closure,
 sterile bottle 8108
Clothes,
 fungi 110
Clothing,
 burns unit 2346
Clotrimazole,
 + dioctyl sodium sulphosuccinate/surfactants,
 Candida albicans 10174
 + sulphamethoxazole, Candida 4670
 antifungal agent 528
 Candida albicans 10173
Clove,
 Vibrio parahaemolyticus, seafood 9588
Clove oil,
 Aspergillus parasiticus, aflatoxins 10142
Clover,
 + Rhizobium, nitrogen fixation 5488
 + Rhizobium, nitrogen fixation, acetylene
 reduction assay 7272
 + Rhizobium trifolii, nitrogen fixation,
 acetylene reduction assay 2882
 + Rhizobium trifolii, nitrogen
 fixation/modulation 450 2079 5492
 alsike, bean yellow mosaic virus 3461
 alsike, subterranean clover red leaf virus
 3461
 Caucasian, + Rhizobium trifolii, nitrogen
 fixation 6445
 clover yellow edge agent, leafhopper 262
 crimson, rugose leaf curl disease,
 bacterium-like organism 261
 Egyptian, damping-off fungi 9762
 Egyptian, Leptosphaerulina trifolii 6186
 kara, Myrothecium verrucaria 6189
 red, bean yellow mosaic virus 3462 9759
 red, Botrytis cinerea, pterocarpan/isoflavone
 1846
 red, clovers yellow type disease,
 mycoplasma-like organism, Matricaria inodora
 4295
 red, clovers yellow type disease,
 mycoplasma-like organism, Plantago media
 4295
 red, Fusarium roseum 6174
 red, maackiain, Helminthosporium
 carbonum/Stemphylium botryosum/Stemphylium
 sarcinaeforme 4496 4497
 red, medicarin, Helminthosporium
 carbonum/Stemphylium botryosum/Stemphylium
 sarcinaeforme 4496 4497
 red, Myrothecium verrucaria 6189
 red, peanut stunt virus 3462
 red, Plantago media, mycoplasma-like
 organism, Cirsium oleraceum 4295
 red, pterocarpan phytoalexins, fungal
 transformation 3463
 red, resistance, Colletotrichum trifolii
 9927
 red, + Rhizobium 4581
 red, + Rhizobium meliloti, nitrogen fixation,
 soil pH 10065
 red, rugose leaf curl disease, bacterium-like
 organism 261
 red, Sclerotinia sclerotiorum,
 pterocarpan/isoflavone 1846
 red, tobacco ringspot virus 3462
 red, white clover mosaic virus 3462
 Rhizobium trifolii, modulation/nitrogen
 fixation 2887
 root hair branching, Rhizobium trifolii 4584
 rugose leaf curl disease, bacterium-like
 organism 261
 subterranean, Kabatiella caulivora 6185
 subterranean, + Rhizobium trifolii 4586
 subterranean, + Rhizobium trifolii,
 immunodiffusion, streptomycin-resistance
 5493

Subject index

Clover(Contd),

- subterranean, + *Rhizobium trifolii*, nitrogen fixation, acetylene reduction assay 2882
- subterranean, + *Rhizobium trifolii*, nitrogen fixation, nitrate 8027
- subterranean, + *Rhizobium trifolii*, nodulation/nitrogen fixation 2884 2885
- subterranean, seed, + *Rhizobium* 8904
- sweet, *Ascochyta caulicola* 4304
- sweet, pterocarpan phytoalexins, fungal transformation 3463
- Tillman white, alfalfa mosaic virus 8607
- Tillman white, clover yellow vein virus 8607
- Tillman white, peanut stunt virus 8607
- Tillman white, white clover mosaic virus 8607
- white, bean yellow mosaic virus 9759
- white, clover yellow mosaic virus 9760
- white, cymbidium ringspot virus 6163
- white, *Fusarium roseum* 6174
- white, mycorrhiza 4569
- white, *Myrothecium verrucaria* 6189
- white, + *Rhizobium trifolii* 4585
- white, rugose leaf curl disease, bacterium-like organism 261
- white, *Sclerotium rolfsii*, biological control, *Trichoderma viride*, S-ethyl dipropylthiocarbamate 6354

Clover yellow edge agent,

- clover, leafhopper 262

Clover yellow mosaic virus,

- white clover 9760

Clover yellow vein virus,

- pea necrosis virus 9761
- Tillman white clover 8607

Clovers yellow type disease,

- mycoplasma-like organism, *Cirsium oleraceum* 4295
- mycoplasma-like organism, *Matricaria inodora* 4295
- mycoplasma-like organism, *Plantago media* 4295

Cloves,

- white, + *Rhizobium trifolii*, nitrogen fixation 449

Cloxacillin,

- + amikacin 4794
- + amoxycillin, antibacterial agent 8149
- + mecillinam, antibacterial agent 1366
- antibacterial agent 2178
- bacterial beta-lactamase, double disc method 3288

Clostridium perfringens 7371

- Enterobacter aerogenes* 1214
- Escherichia coli* 555 1214
- Klebsiella pneumoniae* 1214
- mastitis-causing microorganisms 2167
- milk, assay, *Sarcina lutea*/*Bacillus subtilis* 5206
- milk, penicillinase 4192
- milk, thin-layer chromatography 1722
- minibag/minibottle antibiotic admixtures, stability 9030
- Proteus mirabilis* 1214
- Pseudomonas aeruginosa* 1214
- Staphylococcus aureus* 1214 2169
- Staphylococcus aureus* penicillinase 7372
- Streptococcus faecalis* 1214
- vitamins/nicotinamide/p-aminobenzoic acid 2991

Club root,

- Plasmodiophora brassicae*, Brassica, resistance testing 6339

Clubroot,

- Plasmodiophora brassicae*, Brassica 6256
- Plasmodiophora brassicae*, brussels sprout, lime 4503
- Plasmodiophora brassicae*, cabbage 6256
- Plasmodiophora brassicae*, cabbage, fungicide 2803 2804

Clubroot(Contd),

- Plasmodiophora brassicae*, cabbage, resistance 4460 4461
- Plasmodiophora brassicae*, cabbage, soil sterilant 6358
- Plasmodiophora brassicae*, cauliflower, resistance 4460
- Plasmodiophora brassicae*, crucifers, partial soil sterilant 5424
- Plasmodiophora brassicae*, crucifers, pentachloronitrobenzene + hydrated lime 2811
- Plasmodiophora brassicae*, rape 6293
- Clupea harengus*, prepacked, storage, shelf-life 4246
- Co-enzyme, microbial 3217
- Co-enzyme A, bacterial 2506
- Co-trimoxazole, antibacterial agent 2941
- Coagglutination, *Streptococcus* 9287
- Coagulase, *Bacillus subtilis* 9377
- Staphylococcus aureus* L-form 3750
- Coagulase test, *Staphylococcus* 10234

Coal,

- acid mine drainage, *Thiobacillus ferrooxidans*, immunofluorescence 462
- bacterial degradation 10083
- extracts, *Candida tropicalis* biomass 8310
- Methylomonas methanica*, methane oxidation 8929

Coal-bentonite base carrier,

- Rhizobium* 2074

Coal mine soil,

- fungi 2062
- thermophilic fungi 5479

Cobalamin,

- ethanolamine ammonia-lyase, *Clostridium* 3270

Cobalt,

- + bleomycins 6627
- Micromonospora purpurea*, gentamicin 10312

Cobinamide,

- Propionibacterium shermanii* 76

Cobyrinic acid,

- vitamin B12, *Propionibacterium shermanii* 6951

Cocaine,

- antibacterial agent 6495

Coccidioides immitis,

- amphotericin B 8168
- Grocott stain, tissue section 2391
- immunodiffusion test 10621
- phenyl-imidazolyl-fatty acid derivatives 8078
- polymyxin B 620
- triazole derivatives 2960
- X-ray microanalysis 10607

Coccinia cordifolia,

- Erysiphe cichoracearum* 7146

Coccomyces hiemalis,

- Rosaceae 5297

Cochliobolus,

- soil 3632

Cochliobolus carbonum,

- corn 5325
- corn, resistance 5325

Cochliobolus lunata,

- cowpea seed 1848

Cochliobolus lunatus,

- Datura metel 1837
- Trigonella corniculata* seed 1017

Cochliobolus miyabeanus,

- 2-amidocarbonylthiobarbituric acids 2027
- amiprimycin 9124
- bis-trifluoromethyl-imine-imidazolone derivatives, plant protection 5429

Subject index

Cochliobolus miyabeanus(Contd),

crude drugs 3719
Eucalyptis leaf extracts 10166
Eleoophyllum sepiarium oospolactone 2538
isothiocyanate derivatives 3722
phosphoryl phenyldiamine derivatives 1118
rice,
7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine
derivatives 3589

Cochliobolus sativus,

barley 270 8626
conidia, soil, perforation lysis 6427
soil, cereals 2868
spore, soil, microbial degradation 432
wheat 270 1891 2712 4349 6234 6235
wheat, biological control, Sporobolomyces
roseus 6352
wheat, fungicide 5420

Cochliobolus setariae,

aversion factors, helminthosporol,
helminthosporal, ophiobolin A 6625

Cochliobolus specifer,

Datura metel 1837

Cochliodina,

antifungal agent 8082

Cocklebur,

alfalfa mosaic virus 2762

Cock's foot,

Helminthosporium catenarium 2699
Puccinia striiformis dactylidis 7121

Cockscomb,

Fusarium lateritium 311

Cocksfoot,

Claviceps purpurea 288
cocksfoot streak virus, electron microscopy
6210
silage 2600

Cocksfoot mottle virus,

sodium dodecyl sulphate 2397

Cocksfoot streak virus,

cocksfoot, electron microscopy 6210

Cocoa,

powder, Salmonella, enrichment medium,
bactericide 7032

Cocoa swollen shoot virus,

cacao 4380
cacao, resistance 6340

Coconut,

lethal yellowing 10648
smoked, aflatoxin 2624

Coconut-agar medium,

Aspergillus flavus, aflatoxins 5269
Aspergillus parasiticus, aflatoxins 5269

Coconut palm,

see also Palm, coconut
Anthostomella cylindrospora 4382
Anthostomella fusispora 4382
Bipolaris halodes, Bordeaux mixture/copper
oxychloride 3506
Botryodiplodia theobromae 4382
Enterobacter 5370
fruit, oxytetracycline, lethal yellowing
disease 403
Kainkope disease 2735
Kainkope disease, tetracyclines 2821
kainkope, mycoplasma-like organism 6260
Leiosphaerella longispora 4382
lethal yellowing 8687
lethal yellowing disease/Kainkope
disease/cadang-cadang 1922
mycoplasma-like organism, Kainkope
disease/Cape St. Paul wilt 1054
Mycoplasma wilt 4381
Pestalotiopsis 4382
Phytophthora palmivora, Bordeaux mixture
3506

Coconut root wilt virus,

tobacco, immunofluorescence 1958

Cocos nucifera,

Anthostomella cylindrospora 4382

Cocos nucifera(Contd),

Anthostomella fusispora 4382
Bipolaris halodes, bordeaux mixture/copper
oxychloride 3506
Botryodiplodia theobromae 4382
Enterobacter 5370
fruit, oxytetracycline, lethal yellowing
disease 403
Kainkope disease 2735
Kainkope disease, mycoplasma-like organism
6260
Kainkope disease, tetracyclines 2821
Leiosphaerella longispora 4382
lethal yellowing 8687 1054
lethal yellowing disease/Kainkope
disease/cadang-cadang 1922
mycoplasma-like organism, Kainkope
disease/Cape St. Paul wilt 1054
Mycoplasma wilt 4381
Pestalotiopsis 4382
Phytophthora palmivora, Bordeaux mixture
3506

Cocoyam,

Fusarium moniliforme post-harvest decay 9913
Fusarium solani post-harvest decay 9913

Nalpha-Cocoyl-L-arginine ethyl ester

DL-2-pyrrolidone-5-carboxylic acid salt,
antibacterial agent/antifungal agent, plant
protection 7986

Cod,

gamma-irradiation preservation 6128
viscera, silage, propionic acid + formic acid
preservation 9648

Codeine,

bacterial degradation 118

Codiaeum variegatum,

Glomerella cinoulata 7912

Coelastrum proboscideum,

antibacterial agent, Staphylococcus aureus
6494

Coenophora cucurbitarum,

fennel rhizosphere, subamycin 2863

Coenzyme,

5,6-dimethylbenzimidazolyl cobamide,
Klebsiella, methanol 2917

Coenzyme A transferase,

Peptostreptococcus elsdenii 1680

Coffea,

Colletotrichum coffeanum, fungicide 384
Fusarium xylarioides 4383
Hemileia vastatrix, plant protection 362

Coffea arabica,

Colletotrichum coffeanum 4289
Colletotrichum coffeanum, fungicide
resistance 2921
Fusarium xylarioides 4383
Hemileia vastatrix, fungicide 5422
Hemileia vastatrix, oxycarboxin 20EC 9977
Pseudomonas syringae 5371
resistance, Colletotrichum coffeanum 7952

Coffee,

Colletotrichum coffeanum 4289
Colletotrichum coffeanum, fungicide 384
Colletotrichum coffeanum, fungicide
resistance 2921
Fusarium xylarioides 4383
Hemileia vastatrix, oxycarboxin 20EC 9977
Hemileia vastatrix, plant protection 362
Pseudomonas syringae 5371
resistance, Colletotrichum coffeanum 7952
rust, fungicide 5422

Coffee berry disease,

Colletotrichum coffeanum, coffee 4289
Colletotrichum coffeanum, coffee, resistance
7952

Cofomycin,

1410

Cognac,

aroma composition 5166

Subject index

- Cogomycin**,
structure 2257
- Coiled sprout**,
potato, *Verticillium nubilum* 6269
- Colix lachryma-jobi**,
virus disease 1869
- Cola nitida**,
fungal post-harvest decay 6320
- Cola nut**,
fungal post-harvest decay 6320
- Colchaminethiotepe**,
influenza virus 5591
- Cold shock method**,
Escherichia coli endonuclease I 9387
- Cold treatment**,
microbial plant disease 9949
- Cold water ultra-high pressure cleaning**,
abattoir 5813
bacon factory 5813
- Coleophoma empetris**,
sword bean 1008
- Coleosporium**,
8291
- Coleosporium plectranthi**,
Elsholtzia blanda 997
- Colibacillosis**,
enteric, cattle, *Escherichia coli* vaccine 7461
- Colicin**,
Pseudomonas aeruginosa, *Escherichia coli* 7546
Shigella sonnei 2440
- Colicin O111**,
Escherichia coli 4043
- Colicin B-K260**,
Escherichia coli 5029
- Colicin D-CA23**,
Escherichia coli 5029
- Colicin E1**,
Escherichia coli 5030
- Colicin E2**,
Escherichia coli 4042
- Colicin K**,
Escherichia coli 8179
Escherichia coli, antibacterial agent 6632
- Coliform**,
antibiotic resistance 1200
antibiotic-resistant, estuarine water 3136
assay, virus air pollution, wastewater treatment 7484
butter, quality control 5212
Camembert cheese 9567
catfish 7774
cephalosporin derivatives 2208
cheese 9556
chlorinated effluent, membrane filtration 9271
chlorinated sewage effluent, membrane filtration 3110
cloxacillin + amoxycillin 8149
cream dessert 3384
dicloxacillin + ampicillin 8149
drinking water 3897 7497 10478
estuarine water 721
estuarine water, membrane filter + most probable number test 722
faeces 3893
fluclloxacin + amoxycillin 8149
food 2557 3373 4185 6985 6988
food, antibiotic resistance 4633 6028
food, timed-release capsule method 3972
fresh/frozen seafood 9585
frozen fried chicken 1746
frozen raw breaded shrimp 9591
ground beef 176 1750 7015
ice-covered river water 3132
infant food 2562
injured, milk/dairy product, recovery medium 145
injured, water, membrane filtration 10474
- Coliform(Contd)**,
intestinal, *Lactobacillus lactis* pig feed 9c24
Iranian sausage 185
lamb 178
luncheon meat 9576
meat/hide 4210
meat product 6081
milk 141 8481
milk, proteolysis/lipolysis 142
minced beef 7769
municipal water 7497
oyster 4216
packaged refrigerated chicken patties 7763
polluted drinking water 2304
poultry processing plant water 7493
presasoned comminuted turkey, microorganisms 9574
Provolone cheese 2577
quahaug/shellfish-growing water 188
R factor, antibiotic resistance, sewage treatment 2305
reed canarygrass, sewage lagoon effluent irrigation 46C7
river water 3133 4879 8242
river water, spontaneous bacteriolysis 10483
sausage 9c74
sea water 2340 4687 9227
selective medium 3162
sewage, antibiotic resistance transfer 6473
sewage sludge, soil 3111
sewage treatment 706
sewage, ultraviolet radiation 1466
shucked oyster 932
soil, sewage sludge disposal 4604
spices 1761
streptomycin derivatives 1441
swimming pool water 3899
test 1559
timed-release capsule method 3972
vanilla slices 8514
violet red bile agar 6770 6771
wastewater, dye-sensitized photooxidation disinfection 9221
wastewater, membrane filter 1506
water 3876 3893
water, detection apparatus 6761
water, dodecylbenzene sodium sulphonate 6723
water, dye-sensitized photooxidation disinfection 9221
water, membrane filter 1506
water, membrane filter chamber 6720
water, membrane filtration 10475
water sediment, dredging 10484
water, timed-release capsule method 3972
wild rice fermentation 2549
- Colimycin**,
Enterobacter aerogenes 1214
Escherichia coli 1214
Klebsiella pneumoniae 1214
Proteus mirabilis 1214
Pseudomonas aeruginosa 1214
Staphylococcus aureus 1214
Streptococcus faecalis 1214
- Colimycin (Coly-Mycin)**,
see also Colistin
- Coliphage**,
assay, virus air pollution, wastewater treatment 7484
containment system, hepatitis virus, zonal centrifugation, air hygiene 2288
plaque formation inhibitor, desdanine 5730
water 3127
- Colistimethate**,
+ amikacin 4794
- Colistin**,
see also Colimycin
+ erythromycin, antibacterial agent, Surgical Simplex P Radiopaque bone cement 3011
Acinetobacter 4779

Subject index

Colistin(Contd),

antibacterial agent 6546
Bacillus 9054
 derivatives, antibacterial agent 9102
Enterobacter cloacae 2993
Enterobacteriaceae, antibiotic sensitivity testing 4720
Escherichia coli 2993
Haemophilus parainfluenzae 8115
Klebsiella pneumoniae 2993
 monodansyl-, antibacterial agent 6606
 polyanionic detergents 7389
Proteus 2993 4725 4727
Providencia 2993
Pseudomonas aeruginosa 2993 3749 4726 4727 6550 6566 10245
Pseudomonas aeruginosa, antibiotic sensitivity testing 4720
Pseudomonas aeruginosa phagocytosis, rabbit polymorphonuclear leukocytes 2998
Pseudomonas pseudomallei 8117
 resistance, *Escherichia coli* 6474
 resistance, *Klebsiella* 6474
 resistance, *Proteus* 10129
 resistance, *Salmonella* 7300
 resistance, *Salmonella typhimurium* 6477
Salmonella enteritidis 2993
 selective medium, urinary tract infection 6766
Serratia marcescens 2993
Yersinia enterocolitica 4730

Colitetracycline,

+ penicillin/cephalothin, *Escherichia coli*/*Staphylococcus aureus* 3754

Collagen,

Rhizopus amyloglucosidase 5921

Collagenase,

Clostridium perfringens exotoxin 8581

Collar rot,

Marasmiellus epochous, Japanese mint 4396 4397

Phytophthora cactorum, apple, plant protection 7136

Phytophthora cambivora, apple, plant protection 7136

Rhizoctonia bataticola, okra, pectin methyltransferase/endopolygalacturonase/exopolygalacturonase/polygalacturonate trans-eliminase/cellulase 1070

Rhizoctonia solani, cauliflower, fungicide 1103

Rhizoctonia solani, fenugreek 1018

Sclerotium rolfsii, pumpkin 2755

Collection,

microorganisms 6758

Collection device,

microbiological sampling 3938

Collector,

microbiological, *Spicaria violacea*, radioisotope enrichment 4987

Colletopyrone,

Colletotrichum nicotianae 4148

Colletotrichin,

Colletotrichum nicotianae 9712

Colletotrichin B,

Colletotrichum nicotianae 9712

Colletotrichum,

2-amidocarbonylthiobarbituric acids 2027

Amaranthus viridis 1909

avocado post-harvest decay 9909

biological control, *Colletotrichum*

lindemuthianum, bean 1999

cotton seed 2737

ethephon + fungicides, tomato 8805

fig, fungicide 5421

fungicide, plant protection 383 384

sesame phylloplane 1949

thioallophanate derivatives 391

Colletotrichum(Contd),

triazino-benzimidazole derivatives, plant protection 3588

Vitex negundo 1837

Colletotrichum atramentarium,

triflorine 396

Colletotrichum capsici,

chilli, plant protection 7145

chilli, sporulation 1001

diallyl-disulphide 388

garlic oil 388

guava, sporulation 1001

malabar nut tree 1837

melon 1066

Colletotrichum circinans,

sorghum 1885

sugarcane 1885

Colletotrichum coccodes,

enzymes, tomato 6309

pectin transeliminase, tomato 6308

Colletotrichum coffeanum,

clover pterocarp phytoalexin transformation 3463

coffee 4289

coffee, fungicide 384

coffee, fungicide resistance 2921

coffee, resistance 7952

copper fungicide, plant protection 8807

N-phenyl maleic imide derivatives 393

Colletotrichum corchori,

jute 6273

Colletotrichum crossandrae,

Peristrophe bicalyculata 1072

Colletotrichum dematium,

naphthaquinones 5430

plant disease 6595

soybean 4311

Colletotrichum falcatum,

sugarcane 6229 7133

sugarcane, sporulation 1001

trioecious 5417

Colletotrichum fragariae,

strawberry 4418

Colletotrichum fructigenum,

Rosaceae 5297

Colletotrichum fuscum,

digitalis, lanatoside A/lanatoside C,

digitoxin/digoxin 869 870

Colletotrichum gloeosporioides,

Aleo vera 1837

Allamanda cathartica 5364

Aspergillus versicolor versicolorin, biological

control, jute 8880

betel nut palm 8679

cassava 7908

chilli 2733

garlic juice 8987

guava post-harvest decay,

tetracycline/thiourea 346

Indian cassia 3615

kapok tree 6274

mandarin orange 2724

mango post-harvest decay 9917

naphthaquinones 5430

papaya post-harvest decay, fungicide 2772

plant disease 6595

Stylosanthes seed, sulphuric acid

scarification 5314

tangerine, ethylene 5401

tangerine post-harvest decay 7193

Theobroma cacao 1050

Colletotrichum gossypii,

cotton seed 6262

Colletotrichum graminicola,

corn 4331 5323 5324 6214 6215 6216 6218

corn kernels 6217

corn, resistance 6218 6332

toxin, Sorghum 1884

Subject index

Colletotrichum lagenarium,

- bean, resistance 7961
- bottlegourd, fungicide 6357
- cucumber, biological control 7954
- cucumber,
 - 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589
- cucumber, thioureidobenzene phosphates 2014
- dihydroxydinaphthylmethane, plant protection 4509

melon 1067 2747 6167

- phosphoryl phenyldiamine derivatives 1118
- triazolo-benzothiazole derivatives, plant protection 7216

watermelon, copper compound 2026

watermelon, fungicide 6357

Colletotrichum lindemuthianum,

- bean 1842 4288 6183 9756
- bean, biological control, Colletotrichum 1999
- bean, fungicide 384
- bean, phaseollin 6349 8787
- bean, resistance 3547 7961
- clover pterocarpin phytoalexin transformation 3463
- cowpea, resistance 7194
- lablab, seed treatment fungicide 2824

Colletotrichum lindendia,

- alpha-methylstyrene 8991
- styrene 8991

Colletotrichum linicolum,

- aculeacins 8175

Colletotrichum musae,

- banana 4432
- banana post-harvest decay 4433
- banana post-harvest decay, imazalil 3540

Colletotrichum nicotianae,

- colletopyrone 4148
- colletotrichin 9712
- colletotrichin B 9712
- Gloeophyllum sepiarium oospolactone 2538

Colletotrichum piperatum,

- chilli 2734
- chilli, fungicide 4490

Colletotrichum pisi,

- antibiotic A23187 2239

Colletotrichum trifolii,

- alfalfa 6175
- alfalfa, resistance 9925
- alfalfa, resistance testino 6328
- red clover, resistance 9927

Colletotrichum truncatum,

- pigeon pea 2681
- soybean 6196 9769

Colletotrichum graminicola,

- corn 9788

2,4,6-Collidine,

- degradation, soil coryneform 3364

Colloid,

- Xanthomonas, cheese 9561

Collybia radicata,

- conifers 5446

Colocasia antiquorum,

- dasheen mosaic virus 334
- Phytophthora colocasiae 8736

Colocasia esculenta,

- virus diseases 8674

Colony counting,

- bacterial 2371
- surface 7538

Colorado potato beetle,

- Bacillus thuringiensis insecticide 4150

Colorimetry,

- anaerobic bacteria 3957
- chloramphenicol assay 5686
- vesicular-arbuscular mycorrhiza + plant root 5478

Colostrum,

- dahi, Streptococcus/Lactobacillus 1730
- fermentation, animal feed 7780

Colostrum(Contd),

- fermentation, cattle feed 7035
- fermented, cattle feed 7036
- microflora, formaldehyde 7034
- microflora, propionic acid 7034
- preservation 9649
- preserved, cattle feed 7036

Columbamine,

- antibacterial agent/antifungal agent 2144

Columbia colistin-nalidixic acid agar,

- Haemophilus vaginalis 3976

Columbine,

- Erysiphe aquilegiae 304

Columbus grass,

- Periconia circinata 4345

Columnar denitrification,

- closed-system salmon aquaculture 4873

Comamonas,

- deacylating enzyme, 7-amino-cephems 2202

Comamonas terrigena,

- alkylsulphohycolase, alkylsulphate detergent degradation 6979

Comandra rust,

- Cronartium comandrae, Comandra umbellata 4546

Cronartium comandrae, jack pine 4546

Comandra umbellata,

- Cronartium comandrae 4546

Comb,

- steriliser 1280

Commelina diffusa,

- commelina mosaic virus 9857

Commelina mosaic virus,

- Commelina diffusa 9857

Commelina salicifolia,

- Cercospora commelinae-salicifoliae 998

Common blight,

- Xanthomonas phaseoli, bean 1842 4288 7111
- Xanthomonas phaseoli, bean, antibacterial agent 4522

Common bunt,

- Tilletia caries 1896
- Tilletia caries, wheat, fungicide tolerance 7225
- Tilletia foetida, wheat, fungicide tolerance 7225

Common cucumber mosaic virus,

- snakegourd 1950

Common leaf spot,

- Pseudopeziza medicaginis, alfalfa 6176

Common root rot,

- Cochliobolus sativus, barley 8626
- Cochliobolus sativus, wheat 1891

Common rust,

- Puccinia sorghi, corn 8640

Common scab,

- Streptomyces scabies, potato, fertilizer 1941

Common smut,

- Tilletia caries, wheat 2714
- Tilletia foetida, wheat 2714
- Ustilago maydis, corn 8638
- Ustilago zeae, corn 4315

Compactin,

- Penicillium brevicompactum, structure 632

Complement,

- human, Actinomycetes protease inhibitor 5907

Complement-activation,

- tritiated Escherichia coli endotoxin assay 9725

Complement fixation,

- assay, Acholeplasma reference antisera 5847
- assay, Mycoplasma reference antisera 5847
- foot-and-mouth disease virus, bovine leukocyte cell culture 4006
- human cytomegalovirus 1607
- influenza virus soluble antigen 4008
- Mycobacterium lepraemurium 9312

Compositae,

- mungbean yellow mosaic virus 4294

Subject index

- Compost,**
 Actinomycetales 4996
 aerobic microbial growth 3151
 carbon assay 6754
 chir pine mycorrhiza 3600
 hardwood bark, *Phytophthora cinnamomi*, lupin 7960
 mushroom culture 1759 5275
 patula pine mycorrhiza 3600
 potting, phytopathogenic fungi 2055
 rapid moisture determination 10456
 sludge, soil 4605
 waste gas deodorisation 8221
 windrow, microbial sampling 1458
- Compost bin,**
 720
- Composted sewage sludge,**
Salmonella enteritidis, ionizing radiation 7483
- Composting,**
 chicken manure, bacteria 8222
 hardwood tree bark, phytopathogenic fungi 2055
 pulp mill/paper mill sludge 6687
 sewage 9196
 sewage sludge 8220
 sewage treatment 3880
 sludge 700
 tree bark 7428
 waste 1459 2310 3120 3889 9195 10454 10455 10457 10458
 waste, carbon dioxide 6688
 waste, hygiene 3114
 waste treatment 3879
 wastewater 10455
- Composting privy,**
 3880
- Compound 48/80,**
 antibacterial agent/antifungal agent 10191
- Compound 102804,**
 vitamin B12 antimetabolite, *Bacillus cereus*, antibacterial agent 9480
- Compound 142B,**
Trichoderma, structure 3079
- Compound B1912,**
Mycobacterium marinum 2928
- Compound H 646-SY3,**
 Streptomyces, antifungal agent, trichomycin potentiation 9481
- Compound NA-337,**
 Streptomyces 6953
- Computer,**
 antibiotic sensitivity testing 7366 10508
 antibiotics 8110
 antibiotics resistance, bacteria 7296
Candida utilis fermentation, gas-exchange 3354
 chemostat culture, *Candida utilis* 10619
 Enterobacteriaceae tests 1566
 fermentation 4914 6011 7591 8435 9491 9492
 fermentation automation 5160
 food microbiological standards 8460
 microbial ATP 2361
 microbiology 6747 10507 10508
 numerical taxonomy, estuarine water/sediment bacteria, petroleum degradation 10109
 petroleum-degrading marine bacteria 10111
 plant disease 7102 8589 9745
Puccinia graminis tritici, wheat 7102
Puccinia recondita tritici, wheat 7102
Saccharomyces cerevisiae culture 1598
Saccharomyces cerevisiae fermentation 6010
 sewage treatment 10441
 soil fungi 2060
 yeasts 6793
- Computer model,**
 cereal rust 7118
- 5alpha-Conanin-3beta-ol,**
 dehydrogenation, *Nocardia restrictus* 9439
- Concanavalin A,**
 799
- Concanavalin A-magnetite,**
 microorganism immobilisation 8305
- Concave gum virus,**
 citrus 3494
- Concrete,**
 bituminous, fungi 5507
- Condiment,**
Vibrio parahaemolyticus, seafood 9588
- Conductimetry,**
 Emmental cheese 6065
- Conductive staining,**
Alternaria kikuchiana, scanning electron microscopy 761
Erysiphe graminis hordei, scanning electron microscopy 761
- Confectionery plant,**
 sanitation 745
- alpha-Conidendrin,**
 degradation, soil fungi 9522
- Conidiation,**
Aspergillus nidulans 783
- Conifer,**
 decay fungi 5446
 disease 7997
- Conimitella williamsii,**
Puccinia saxifragae 2736
- Coniophora,**
 benzamide derivatives, plant protection 4508
- Coniophora cerebella,**
 European beech bark degradation 4552
 fungicide 2053
 Norway spruce bark degradation 4552
 wood preservative 4554
 wood preservative assay 10031
- Coniophora puteana,**
 Dacrydium heartshake podocarpic acid 7234
 wood preservative 4551
- Coniothyrium fuckelii,**
 juniper 8702
- Coniothyrium fusco-atrum,**
 citron 2663
- Conium maculatum,**
 carrot thin leaf virus 8684
- Conjugate,**
 dextran + *Bacillus amyloliquefaciens* alpha-amylase 2452
- Conocandin,**
Hormococcus conorum 4796
- Constantinea simplex,**
 extracts, antiviral agent 8993
- Contact agar-block method,**
 wood preservative fungicide 10029
- Contact lens,**
 disinfectant 2355
 hard, ultrasonic sterilisation 7353
 soft, eye microflora 4911
 soft, preservative 4701
 soft, soaking solution, *Pseudomonas aeruginosa*/*Pseudomonas cepacia* 4912
 soft, sterilising solution 1282 1284
 soft, ultrasonic sterilisation 7353
 sterilisation 10214
 sterilising solution 1282 1283
- Contact lens solution,**
 quality control 548
- Contact plate method,**
 surface sampling, meat industry 7521
- Contagious bovine peripneumonia vaccine,**
 lyophilised, preservation 7460
- Container,**
 aseptic filling device 8105
 aseptic, pharmaceutical 2984
 beverage, sterilisation, laser beam-induced plasma 1279
 food, sterilisation, laser beam-induced plasma 1279
 fungi 4978

Subject index

Container(Contd),

- medicament, sterilisation, laser beam-induced plasma 1279
- sterile, closure 8108
- sterile medicament 2162

Containment system,

- hepatitis virus, zonal centrifugation, air hygiene 2288

Contamination control mat,

- hospital hygiene 10492

Continuous bioreactor,

- tapered fluidized bed 3153

Continuous culture,

- Aerobacter aerogenes* 4940
- Azotobacter chroococcum* 770
- Bacillus brevis*, gramicidin S synthetase 2473
- Bacillus brevis*, protease 42
- Bacillus licheniformis*, penicillinase 5087
- Bacillus megaterium*, penicillin amidase 5087
- bacterium 4944
- Candida* 107, lipid 6006
- Candida*, lipid, fatty acid 6007
- cellulose, *Trichoderma viride*, cellulase 6877
- continuous multistage tower fermenter 89
- Escherichia coli* 1568 2379
- fungal mycelium 7578
- Hydrogenomonas eutropha* 5844
- Klebsiella aerogenes* 4951
- marine bacteria 5836
- microbial L-glutamic acid 9332
- microbial L-lysine 9334
- microorganisms 752 1540 2357 3944 3945 3946 4152 8264 9245 10516
- microorganisms, column fermenter 9246
- oral bacteria, hydroxyapatite-coated glass beads 6767
- Saccharomyces cerevisiae* 7582 10622
- sterile medium, membrane filtration 3149
- Thiobacillus ferrooxidans*, iron oxidation 8931
- Torulopsis*, glucose/hexadecane 2913
- yeast 779 1589

Continuous culture apparatus,

- microorganisms 751

Continuous fermentation,

- glucose, *Saccharomyces carlsbergensis* 6969
- yoghurt 5215

Continuous fermentation test,

- Saccharomyces cerevisiae* 2395

Continuous-flow,

- cell cycle fractionation 6794

Continuous-flow system,

- Escherichia coli* ultraviolet irradiation 7559

Contraceptive,

- chemical, herpes simplex virus 4675

Controlled pore glass,

- adsorption chromatography, interferon 4677

Cooling tower,

- antibacterial agent, quaternary ammonium compounds 2319
- bactericide/fungicide 1494 7345
- bactericide, methylene bithiocyanate 1495
- fungicide/bactericide, halocynoacetamide + haloacetic ester 1496

Cooling tower water,

- antibacterial agent, quaternary ammonium compound 2390

Cooling water,

- antibacterial agent/antifungal agent, benzene derivatives 2131
- antibacterial agent/antifungal agent, epsilon-caprolactam + alkanediamines 2318
- bactericide/fungicide, benzisothiazolinone + quaternary ammonium compound 4687
- canned food, chlorine compounds 1780
- slimicide, 1,3-dichloroacetone oxime acetate + beta-bromo-beta-nitrostyrene 2320

Cooling water system,

- slimicide, alpha-bromo-p-methylacetophenone 1,3-dichloroacetone oxime acetate 10470

Copper,

- + bleomycins 6627
- antibacterial agent, intensive care unit 2347
- chalcopyrite leaching, *Thiobacillus ferrooxidans* 1180
- citrinin 4795
- fungicide, plant protection 8807
- Fusarium oxysporum*, lemon post-harvest decay 9916
- leaching, *ferrolobus* 10087
- leaching, *Sulfolobus acidocaldarius* 10087
- precipitation, *Desulfovibrio desulfuricans* 5510
- tolerance, *Penicillium ochro-chloron* 8930
- Xanthomonas malvacearum*, cotton 3595

Copper ammonium carbonate,

- bioprotection citri, grapefruit 2722

Copper blue,

- Phytophthora nicotianae*, tomato 4494

Copper carbonate,

- Phytophthora palmivora*, cacao 6362
- seed treatment, *Sclerotium rolfsii*, lentil 4523

Copper compound,

- fungicide/bactericide, plant protection 2026
- Xanthomonas juglandis*, walnut 2050

Copper fungicide,

- Macrophomina phaseolina*, papaya 2802
- Peronospora*, grapevine 4504
- Peronospora juniperovera*, juniper 1127

- Phytophthora nicotianae*, mandarin orange 2724

Copper hydroxide,

- Phytophthora palmivora*, cacao 6362
- Xanthomonas nigromaculans*, Zinnia 340
- Xanthomonas phaseoli*, bean 4522

Copper-isoniazid complex,

- antiviral agent, *Mycobacterium tuberculosis* 7343

Copper oxychloride,

- + zineb, *Sclerophthora rayssiae*, corn 6356
- Alternaria cucumerina*, squash 382
- Bipolaris halodes*, coconut palm 3506
- Lophodermium pinastri*, pine 1146
- Phytophthora palmivora*, cacao 6362
- Pseudomonas phaseolicola*, bean 6376
- Sclerophthora rayssiae*, corn 6356

Copper Sandoz,

- Thielavia terricola*, sesame 381

Copper sulphate,

- + polymeric film, *Alternaria solani*, tomato 374
- phytopathogenic bacteria/fungi, plant protection 7222
- Phytophthora palmivora*, cacao 6362
- root rot fungi, pea 377

Copperspot disease,

- Stemphylium loti*, cyanide 2536

Copra,

- smoked, aflatoxin 2624

Coprine,

- Coprinus atramentarius* 6830

Coprinus atramentarius,

- coprine 6830

Coprinus comatus,

- esterase, cephalosporins 8132

Coprinus echinosporus,

- Scots pine leaf litter, urea/urine 2035

Coprinus fimetarius,

- tree bark fermentation, fertiliser 7488

Coprinus lagopus,

- tetrad analysis 10615

Coprococcus catus,

- urease assay 8271

Subject index

- Coral,**
antibacterial agent 8063
- Corchorus capsularis,**
Colletotrichum gloeosporioides, biological control, Aspergillus versicolor versicolin 8880
seed, fungi, seed dressing fungicide 2825
- Corchorus capsularis,**
Colletotrichum corchori 6273
Macrophomina phaseolina 316
Thanatephorus cucumeris 8703
- Cordgrass,**
smooth, Puccinia sparganioides 3480
- Cordia dichotoma,**
Gloeosporium fructigenum 6170
- Cordia obliqua,**
Phyllosticta helleborella 1836
- Cordierite,**
fungal degradation 905
- Cordycepin,**
western equine encephalitis virus 4683
- Cordyceps militaris,**
culture, insecticide 6965
- Core-rot,**
Erwinia carotovora/Erwinia chrysanthemi, carrot 310 1051
- Coriander,**
Erysiphe umbelliferarum 1911
microorganisms 4223
Protomyces macrosporus, soil fertilizer 3574
- Coriandrum sativum,**
celery mosaic virus 3499
Erysiphe umbelliferarum 1911
Protomyces macrosporus, soil fertilizer 3574
- Coriaria angustissima,**
Sphaerotheca fuliginea 2664
- Coriaria myrtifolia,**
nodulation 3652
- Coriaria thymifolia,**
Sphaerotheca fuliginea 2664
- Corirolellus palustris,**
beech degradation, ultraviolet/fluorescence microscopy 5466
spruce degradation, ultraviolet/fluorescence microscopy 5466
- Corioliin B,**
5-keto-, derivatives, antitumour agent/antibacterial agent 9135
- Coriulus hirsutus,**
Rosaceae 5297
- Coriulus versicolor,**
beech degradation 10022
beech degradation, ultraviolet/fluorescence microscopy 5466
1,2-dithiol-3-thione derivatives 8077
lignin degradation 419 6403
plywood, preservative 10032
polysaccharide, antitumour agent 70 71
Rosaceae 5297
spruce degradation, ultraviolet/fluorescence microscopy 5466
- Coriulus zonatus,**
Rosaceae 5297
- Corky root,**
Cylindrocarpum destructans, Xiphiinema bakeri, Douglas fir 8844
- Corn rot,**
Phytophthora colocasiae, taro 8736
- Corn,**
see also Maize
+ poultry litter, silage, cattle/sheep feed 9637
+ Spirillum lipoferum, nitrogen fixation 4967
+ Spirillum, nitrogen fixation 453 5501
acid-treated 2623
acid-treated, Absidia 2623
acid-treated, aflatoxin 2623
acid-treated, Aspergillus flavus 2623
acid-treated, Aspergillus niger 2623
- Corn(Contd),**
acid-treated, Penicillium 2623
aflatoxin, Aspergillus flavus 1804
aflatoxin E1 7820
aflatoxin M1 1806
aflatoxins 7815 9703 9705
aflatoxins, ammoniation/assay 9704
aflatoxins, chromatography 8566
aflatoxins, fermentation 9707
aflatoxins, minicolumn test 5271
Aspergillus flavus, aflatoxin 983 1805 2622
Aspergillus flavus, aflatoxins 7814
Aspergillus flavus, aflatoxins, fluorescence 6136
Aspergillus parasiticus, aflatoxins, fluorescence 6136
Bipolaris maydis, biological control 1998
Botryodiplodia 4330
Cephalosporium acremonium 6214
Chloris striate mosaic disease, Rhodes grass 7128
Colletotrichum graminicola 4331 5324 6214 6215 6216 6218 9782
Colletotrichum graminicola 5323
corn stunt disease complex 7881
Corticium rolfsii 8656
Corynebacterium nebraskense, preservation 10217
Curvularia 4330
Curvularia lunata phytotoxin 6159
decomposing tissue volatiles, soil, Rhizoctonia solani 2071
Diplodia macrospora 4330
Diplodia maydis 4330 5323
Diplodia zeae 7882
disease resistance 2783
Nrechslera turcica 7123 8637
dry-milled products, aflatoxins 9706
dry-milled products, zearalenone 9706
Erwinia carotovora 8633 8634
Erwinia carotovora, bactericide 8827
Erwinia herbicola 9783
Erwinia stewartii, Chaetocnema pulicaria, carbofuran 8783
Erwinia stewartii, inoculation technique 9784
fungal communities, stalk rot 8635
fungal post-harvest decay, chitin assay 9907
Fusarium 274 1804 6203 8638
Fusarium graminearum 9789
Fusarium moniliforme 6214 7882 8638 8639 9789
Fusarium moniliforme/Gibberella zeae/Helminthosporium carbonum/Nigrospora oryzae/Sclerotium bataticola 9787
Fusarium moniliforme, mycotoxins 9790
Fusarium moniliforme, zearalenone 7840 7841
Fusarium oxysporum, insecticide degradation 1758
Fusarium roseum 8638
Fusarium toxins, animal feed 9722
Fusarium zeae, zearalenone, chicken/Japanese quail feed 1769
Gibberella zeae 4330 6214
grains, sterigmatocystin, thin-layer chromatography 7834
Helminthosporium 6214
Helminthosporium carbonum 5325
Helminthosporium catenarium 2699
Helminthosporium maydis 275 5326 7124
Helminthosporium maydis ophiobolin A 9716
Helminthosporium maydis, ozone 9791
Helminthosporium maydis pathotoxin 7125
Helminthosporium maydis toxin 7067
Helminthosporium turcicum 4333 9792
gamma-irradiation, aflatoxin 3432
kernels, Colletotrichum graminicola 6217
Macrophomina phaseolina 6214
maize chlorotic dwarf virus 1868 5320 5321 6212 8631

Subject index

Corn(Contd),

maize chlorotic dwarf virus, insecticide 364
 maize dwarf mosaic virus 1867 1868 5320 5321
 5322 6212 8631
 maize dwarf mosaic virus, insecticide 364
 maize dwarf mosaic virus + maize chlorotic
 dwarf mosaic virus 6213
 maize foliar ring mosaic virus 9779
 maize mosaic virus, electron microscopy 8632
 maize rough dwarf virus, leafhopper 9781
 maize rough dwarf virus, plant protection
 9780
 microbial diseases 4330
 mycoflora 9786
 Mycoplasma 5315
 Nigrospora oryzae 6214
 Pectobacterium carotovorum 9785
 Penicillium 1804 7882
 Phaeocytospora oryzae 6214
 Phylloticta maydis 1870 5327
 Physoderma maydis, fungicide 8793 8794
 phytotoxin, soil microorganisms 1162
 pig feed, Fusarium roseum 3414
 pig feed, Gibberella zeae 3414
 Pithomyces maydis 6219
 post-harvest decay, fungi, volatile compounds
 5402
 Pseudomonas syringae 9783
 Puccinia maydis, fungicide 2800
 Puccinia sorghi 2694 5328 8640
 Puccinia sorghi, fungicide 9963
 Puccinia sorghi, haustorial neckband,
 Casparian strip 4300
 Pythium 4330
 Pythium aphanidermatum 7883
 residues, Trichoderma viride protein, animal
 feed 5611
 resistance, Colletotrichum graminicola 6216
 6218 6332
 resistance, Diplodia zeae 6406
 resistance, Fusarium graminearum 6406
 resistance, Fusarium moniliforme 6406
 resistance, Helminthosporium carbonum 5325
 resistance, Helminthosporium maydis 1983
 7197
 resistance, Helminthosporium turcicum 2781
 5407 7198
 resistance, maize chlorotic dwarf virus 6212
 resistance, maize dwarf mosaic virus 5322
 6212
 resistance, maize mosaic dwarf virus 5407
 resistance, Nigrospora oryzae 6406
 resistance, Puccinia sorghi 2782
 resistance testing, maize dwarf mosaic virus
 7196
 resistance, Ustilago maydis 2783 9930
 resistance, Ustilago zeae 5407
 Rhizoctonia 4330
 Sclerophthora macrospora 4335
 Sclerophthora rayssiae, fungicide 6356
 Sclerospora 4330
 Sclerospora sorghi 2695 7884
 Sclerotium 7882
 Sclerulariopsis brevicaulis, ammonia 2769
 seeds, Aspergillus flavus 1838
 seeds, Azotobacter, nitrogen fixation 2693
 silage, cattle feed 6110 6111 6112 6113 6114
 6115 9636
 soil cores, nitrogen fixation 6437
 Sorosporium reilianum 5329
 Spacelotheca reiliana 2696
 Spiroplasma 5321
 stalk rot, Fusarium moniliforme, corn 6214
 stunt, Spiroplasma 9782
 stunt, Spiroplasma, culture medium 10590
 10591
 tolerance, maize chlorotic dwarf virus 357
 tolerance, maize dwarf mosaic virus 357
 Trichoderma 7882
 Ustilago maydis 1020 2697 8638

Corn(Contd),

Ustilago zeae 4315
 vesicular-arbuscular mycorrhiza 4570
 virus disease 1869
 virus diseases 1614
 wheat streak mosaic virus 1867
 wheat streak mosaic virus 5321
 Zea mays, thin-layer chromatography 6135
 zearalenone 241
 zearalenone, Eppley method 991
Corn product,
 wet milled, aflatoxins, chromatography 8566
Corn stunt,
 1614
Corn stunt disease complex,
 corn 7881
Cornish hen,
 food poisoning 6071
Cornus,
 extracts, antibacterial agent 10141
Cornus amomum,
 witches' broom, mycoplasma-like organism,
 tetracycline/oxytetracycline/chloramphenicol
 1928
Cornus stolonifera,
 Septoria cornicola, benomyl 10008
 witches' broom, mycoplasma-like organism,
 tetracycline/oxytetracycline/chloramphenicol
 1928
Coromerc,
 Ascochyta rabiei, gram 2799
 Operculella padwickii 1100
Correa reflexa,
 Phytophthora cinnamomi 8597
Corninoid,
 Propionibacterium 1692
 Propionibacterium shermanii, cheese whey
 medium 4133
Corrosion,
 aircraft fuel tank, Aspergillus fumigatus
 7283
 microbial, metals 463
Cortaderia fulvida,
 Armillaria novae-zelandiae, radiate pine
 5452
Cortalcerone,
 Corticium caeruleum 4797
Corticium caeruleum,
 cortalcerone 4797
Corticium fuciforme,
 Kentucky bluegrass 8641
 perennial ryegrass 8641
 red fescue 8641
Corticium galactinum,
 apple, plant protection 7136
Corticium rolfsii,
 carbamate derivatives, plant protection 4506
 corn 8636
 beta-fructofuranoside 5942
 glucoamylase 7626
 isothiocyanate derivatives 3722
 phosphoryl phenyldiamine derivatives 1118
Corticium salmonicolor,
 fungicide, plant protection 7206
Corticium sasakii,
 plant hosts 7888
 rice 280 7888
 sclerotia, soil 3640
Corticium solani,
 Datura innoxia 1058
 Egyptian clover 9762
 peanut 6192
 rhizopin 1438
 wheat 4349
Corticium vellereum,
 sugar maple 8856
Cortinellus shiitake,
 RNA, interferon, antiviral agent 9451
Cortisol,
 dehydrogenation, Bacillus cereus 59

Subject index

- cortisol(Contd),**
transformation, immobilised *Corynebacterium simplex*, prednisolone 5977
- corylus avellana,**
Anisogramma anomala 4363
Gloeosporium coryli 7139
- corynebacteriaceae,**
penicillin derivatives 1357
- corynebacterium,**
Actinomyces recifensis, antibacterial agent 2480
activated sludge, carbohydrate waste treatment 6691
aldopentose reductase, L-arabitol/ribitol 2448
annual ryegrass 9801
antiseptic 3137
L-arginase 5C51
L-aspartic acid 9331
bacteriocins 2439
cardamon, penicillin 8831
cephalosporins 2195
cosmetic 7354
efrotomycin 5731
glutamic acid 5895
guanosine-5-monophosphate 65
heat-resistant, scalding tank water 1530
2-keto-L-gulonic acid 809
mycolic acid 3966
mycolic acid, thin-layer chromatography 3175
pasteurised milk 7799
polypropylene glycol degradation 9530
soil, amitrole degradation 7281
soil, phthalic acid/isophthalic acid/terephthalic acid 10049
soil, selenium transformation 4145
sublimation dehydration preservation 2981
tests 3968
tibezoneum 9008
Tribrissen (sulphadiazine + trimethoprim) 2939
vacuum-packaged beef 7803
vacuum-packaged lamb 7804
vacuum-packaged smoked salmon 968
vacuum-packaged trout, gamma-irradiation 5258
water, dodecylbenzene sodium sulphonate degradation 6723
wild rice fermentation 2549
- corynebacterium acetoacidophilum,**
L-aspartic acid 9331
L-lysine 817
- corynebacterium acnes,**
pyridazine-2-oxide derivatives 3932
quaternary ammonium compounds 1535 2145 2146
- corynebacterium alkanophilum,**
co-enzyme A 2506
- corynebacterium autotrophicum,**
RNA, heat treatment 5116
zeaxanthin dirhamnoside 4130
- corynebacterium bovis,**
aplasomycin 5717
kanamycin B derivatives 6596
kanamycin derivatives 3785
- corynebacterium callunae,**
L-lysine 817
- corynebacterium diphtheriae,**
antibiotic TA 6621
cefteazole 5654
cephalosporin derivative 1329
chlorocarcin A 2264
culture, toxin 6772
econazole 2974
exotoxin, mammalian cells 5267 5288
isolation medium 7555
miconazole 2974
plant essential oil 5548
Streptomyces orientalis 3082
toxin 1813 1815 1816 4017 7067 8584 8585
toxin, coryneophage beta 7086
- Corynebacterium diphtheriae(Contd),**
toxin, fragment B 5286
toxin, fragment B, structure 7856
toxin, molecular weight 7842
toxin, toxoid 7847
toxoid 9162
- Corynebacterium diphtheriae vaccine,**
9162
- Corynebacterium diptheroides,**
triorganotin compounds/triorganolead compounds 2129
- Corynebacterium equi,**
cysteine desulphydrase, L-cysteine 6829
- Corynebacterium fascians,**
D-alanine 3
6-(4-hydroxy-3-methyl-cis-2-butenylamino)-2-methylthiopurine 5993
- Corynebacterium flaccumfaciens,**
prodigiosin 8188
- Corynebacterium glutamicum,**
L-aspartic acid 9331
catechol 5146 5147
L-glutamic acid, gamma-glutamylpeptides 8326
L-isoleucine 8319
L-leucine 4038
lysine 5895
L-lysine 817 8320
streptomycin A 5763
- Corynebacterium herculis,**
L-lysine 817
- Corynebacterium hydrocarboclastus,**
corynecins, chloramphenicol acetyltransferase, chloramphenicol-3-acetate esterase 9095
- Corynebacterium insidiosum,**
alfalfa, fluorescent microscopy 6773
- Corynebacterium lilium,**
creatinine deiminase 7619
L-lysine 817
- Corynebacterium michiganense,**
pepper 323
pyridine derivatives 2823
tomato 1960 9902
tomato, plant protection 5392
tomato, resistance 1991 8779 9902
triuretase 1679
- Corynebacterium minutissimum,**
antibiotic EM-49 tetramidino derivatives 5707
antibiotics/antibacterial agent 1306
- Corynebacterium nebraskense,**
preservation 10217
- Corynebacterium ovis,**
sulphanilamide-metal complexes 10148
- Corynebacterium parvum,**
antibiotics/antibacterial agent 1306
serotyping/biotyping 3189
tangential flow, aseptic harvesting 3176
- Corynebacterium parvum vaccine,**
6663
- Corynebacterium paurometabolum,**
asukamycin 5719
- Corynebacterium poinsettiae,**
estuarine water/sediment, petroleum degradation, numerical taxonomy 10109
- Corynebacterium rubrum,**
aflatoxin B1 degradation 7063
aflatoxin B1 degradation, aflatoxin R0 8558
- Corynebacterium sepedonicum,**
isothiocyanate derivatives 3722
potato 3521
- Corynebacterium simplex,**
daunorubicin reduction, antibiotic 2C,798 R.P. 9457
immobilised, cortisol transformation, prednisolone 5977
- Corynebacterium tritici,**
rhizopin 1438

Subject index

Corynebacterium vaginale,

- culture medium, peptone-starch-dextrose agar/Columbia colistin-nalidixic acid agar 3976
- isolation medium 10556
- preservation 4703

Corynebacterium xerosis,

- alborixin 5714
- antibiotic AV290 alkylated derivatives 1394
- antibiotic TA 6621
- enterocin 1415

Corynebacterium lilium,

- creatinine deiminase 3263

Corynecins,

- Corynebacterium hydrocystoclastus, chloramphenicol acetyltransferase, chloramphenicol-3-acetate esterase 9095

Coryneform,

- continuous culture 4944
- oil degradation, mercury 4623
- RNA, heat treatment 5116
- soil, 2,4,6-collidine degradation 3364
- soil, 2-ethylpyridine degradation 3364
- soil, 2,4-lutidine degradation 3364

Coryneform bacterium,

- slime-producing, industrial water system 9214

Corynebacterium beta,

- Corynebacterium diphtheriae toxin 7086

Corynespora callicioidea,

- Urena lobata 4430

Corynespora cassicola,

- aculeacins 6175
- cowpea, resistance 7194
- Rauwolfia serpentina 1079

Coryneum folicolum,

- stone fruit trees 9817

Coryza,

- fowl, Haemophilus gallinarum vaccine 10431

Coson,

- Alternaria trititica, wheat 1102

Cosmetic,

- antibacterial agent/antifungal agent, benzene derivatives 2131
- antibacterial agent/antifungal agent, paraldol 3721
- antibacterial agent, thiourea derivatives 3933
- bacteria 6611
- bacteriostat, benzanilide derivatives 1217
- eye, microorganisms 4910
- eye, quality control 548
- fungicide, imidazole derivatives 8079
- germicide 3934
- hygiene 3935 4022 4909
- gamma-irradiation preservation, packaging 5611
- microbial count 3941
- microorganisms 4022 10505
- microorganisms/quality control 2163
- packaging/sterile filling 2160
- preservation 4698 7254 10219
- preservation, packaging 5610
- preservative 5605
- preservative, antibacterial agent/antifungal agent, aliphatic diol 4699
- preservative, cinnamyl phenols 532
- Pseudomonas aeruginosa, selective medium 3192
- Pseudomonas, modified Sutter's arginine dihydrolase medium 9282
- quality control 1292
- quaternary ammonium compound, bactericide/fungicide 5803
- zeaxanthin 73 74

Cosmos bipinnatus,

- munchean yellow mosaic virus 4294

Cotoneaster acuminata,

- Alternaria alternata 7147

Cotton,

- Curvularia lunata, pectic enzymes 5083
- degradation, microbial cellulase 5189
- Diplodia gossypina 8658 8689
- foxing 109
- Fusarium 1923
- Fusarium oxysporum 2738 4384 8688
- Fusarium oxysporum, soil 7867
- Fusarium vasinfectum 312
- Helminthosporium gossypii 1055
- Macrophomina phaseolina 1924
- Macrophomina phaseolina, soil 8921
- Pythium ultimum, seed treatment fungicide 9992
- Ramularia areola 7148
- resistance, blue disease 7953 9938
- resistance, Diplodia gossypina 8688
- resistance, Fusarium oxysporum 8688
- resistance testing, Verticillium dahliae 4465
- resistance, Xanthomonas malvacearum 4463 4464 7913

Rhizoctonia solani 2739

- Rhizoctonia solani, biological control, Bacillus subtilis/Penicillium patulum 372
- Rhizoctonia solani, fungicide 4523
- Rhizoctonia solani, furan-3-carboxamide derivatives 1112
- Rhizoctonia solani, seed treatment fungicide 3836 9992
- Sclerotium rolfsii, biological control, Trichoderma viride, S-ethyl dipropylthiocarbamate 6354
- seed, Aspergillus flavus 1818
- seed, Colletotrichum gossypii + Xanthomonas malvacearum 6262
- seed, microflora 2737
- Shigella sonnei, indirect haemagglutination 8285

Thielaviopsis basicola, mycorrhiza 8690

- Verticillium 1923
- Verticillium dahliae 4370 4465
- Verticillium dahliae, pectolytic enzymes 6263
- Verticillium dahliae, soil urea 4520
- Verticillium dahliae, tolerance 1925
- Xanthomonas malvacearum 6261 7913
- Xanthomonas malvacearum, antibacterial agent 3595

Cotton swab sampling,

- chicken carcass 1745

Cottonseed,

- aflatoxin 1803
- aflatoxins, high performance liquid chromatography 7816
- Aspergillus flavus, isolation medium 8293
- food product, Clostridium perfringens 5201

Cottonseed cake,

- aflatoxins 9703

Cottonwood,

- eastern, Marssonina brunnea 6394
- eastern, resistance, Marssonina brunnea 5456
- eastern, resistance, Melampsora medusae 5456
- eastern, resistance, Septoria 5457

Coturnix coturnix japonica,

- Aspergillus oryzae ferment, soybean feed 946
- egg, aflatoxins 6138

Cotyledin,

- Cladosporium 81

Cotylenol,

- Cladosporium 81

Couch grass,

- Puccinia persistsens 7880

Coulter Counter,

- fungicide, Candida albicans 4668
- fungicide, Saccharomyces cerevisiae 4668
- neomycin, antibacterial agent 6595

p-Coumarate decarboxylase,

- Cladosporium phlei 2460

Subject index

Coumarin,
Aspergillus niger 3698
Aspergillus terreus 3698
derivatives, bacteriostat 1227
Phytophthora parasitica, tomato 4510

p-Coumaryl-quinic acid,
apple, post-harvest decay resistance 343

Counter immunoelectrophoresis,
Aspergillus fumigatus antibodies 10614

Counter current immunoelectrophoresis,
oral vaccine, antigens 3083

Counter immunoelectrophoresis,
microbiology 3161
Staphylococcus aureus antibody 1576
Streptococcus agalactiae, milk 6996
Streptococcus group D 4973

Counting technique,
miniaturized, anaerobic bacteria 4935

Court noue virus,
grapevine 9867

Couscous,
aflatoxins 4260

Covered smut,
Tilletia lolii, perennial ryegrass 7890
Ustilago hordei, barley 3479 4315 4320
Ustilago hordei, oat 4320
Ustilago kollerii, oat 9794
Ustilago kollerii, oat, resistance 9794

Coverslip,
flexible plastic, microbial microscopy 3940

Cow,
see Cattle

Cowpea,
+ Rhizobium, nitrogen fixation 4587 8911
10066
+ Rhizobium, nitrogen fixation, nitrogenase
5494
bean yellow stipple virus, electron
microscopy 7868
Cercospora cruenta 6188
cowpea mosaic virus 263 9763 9764
cowpea ringspot virus 6187
Erysiphe polygoni, resmethrin 4500
methionine/cysteine/cystine assay,
Leuconostoc mesenteroides 10567
Microsphaera diffusa 3471
nodulation 2078
nodule protoplasts, Rhizobium, nitrogen
fixation 4588
Pseudomonas syringae, syringomycin 7864
resistance, Cercospora canescens 5405
resistance, Cercospora cruenta 5405
resistance, Colletotrichum lindemuthianum +
Cercospora cruenta + Uromyces vignae +
Xanthomonas + Corynespora cassiicola +
cowpea mosaic virus 7194
resistance, cowpea yellow mosaic virus 5404
Rhizobium, seed dressing fungicide 2029
Rhizoctonia solani, soil 8609
rhizosphere mycoflora, seed mycoflora 4574
Sclerotium rolfsii 1849
seed, cowpea mosaic virus 3464
seed, fungi 1848
southern bean mosaic virus 1847
tobacco necrosis virus 1831
tobacco necrosis virus, cold treatment 9949
tobacco ringspot virus 1831
tobacco ringspot virus, cytokinin, kinetin
8608
tobacco streak virus 1831
tomato bushy stunt virus 1831
Uromyces phaseoli 4305
Uromyces phaseoli, haustorial neckband,
Casparian strip 4300
vesicular-arbuscular mycorrhiza 4570
white clover mosaic virus 1831
Xanthomonas vignicola 9765

Cowpea chlorotic mottle virus,
bean yellow stipple virus, bean, electron
microscopy 7868

Cowpea chlorotic mottle virus(Contd),
bean yellow stipple virus, cowpea, electron
microscopy 7868
sodium dodecyl sulphate 2397

Cowpea mosaic virus,
cowpea 263 9763
cowpea, resistance 7194
cowpea seed 3464
Vigna sinensis 9764

Cowpea ringspot virus,
cowpea 6187
plant hosts 6187

Cowpea yellow mosaic virus,
cowpea, resistance 5404

Coxiella burnetii vaccine,
phase 1 Q fever antigen 664

Coxsackie B,
marine algae extracts 8993

Coxsackie B virus,
food 124
sludge sewage 2300

Coxsackie virus,
activated sludge 6673
antibiotic A-26771 1390 264
cycloalkyl-4-oxoquinoline-3-carboxylic acid
derivatives 2141
fruit extract 2962
Sigasept 6729
grape/grape juice/wine 4672
liquid antibody microculture plaque assay
10626
river water 6722
sewage 7486 9201 10450
shellfish 4215
swimming pool 3143

Coxsackie virus B,
estuarine water 1505
sea water 1505

Crab,
blue, meat, Clostridium botulinum, toxin
7019
blue, pasteurisation, Clostridium botulinum
9683
blue, Vibrio parahaemolyticus, condiments
9588
microorganisms 9585

Crabapple,
microbial diseases, resistance 3553

Craig distribution,
gentamicin C 6598

Crambe abyssinica,
Chromelosporium fulvum, fungicide 8691

Crambe kotschyana,
Leveillula 4297

Crangon crangon,
prepackaged peeled, preservation 1795

Crangon vulgaris,
bacteriology 1755

Crappemyrtle,
Erysiphe lagerstroemiae, resmethrin 4500

Crassostrea commercialis,
indicator bacteria 4210

Crassostrea gigas,
salted, Vibrio parahaemolyticus. 2587

Crassostrea virginica,
Vibrio parahaemolyticus, condiments 9588
yeasts 6086

Crataegus oxyacantha,
Fabraea maculata, benomyl 10008

Crataeva religiosa,
Alternaria alternata 4532

Cream,
Candida lipolytica, cheese-like flavour 4204
pharmaceutical, sterilisation, peracetic acid
2979
Salmonella typhimurium 1727

Subject index

- Cream(Contd),**
 sour, lactase 7002
 ultra-high temperature, *Pseudomonas* 3384
 ultra-high temperature, quality control 967C
- Cream dessert,**
 microorganisms 3384
- Creatinase,**
Pseudomonas outida 830
- Creatine,**
 degradation, *Pseudomonas putida*, enzymes 2461
- Creatine amidohydrolase,**
Pseudomonas putida 830 2461 4080
- Creatinine amidohydrolase,**
Pseudomonas 9378
Pseudomonas outida 2461
- Creatinine deiminase,**
Corynebacterium lilium 7618
Corynebacterium lilium 2663
- Cresol,**
 variola virus 1242
- m-Cresol,**
 bactericide 4653
- p-Cresol,**
 polymerization, *Rhizoctonia praticola* phenol oxidase 3305
- Crinipellis pernicioso,**
 cacao, plant protection 7144
- Crinkle disease,**
 Rickettsia, hon, tetracycline, penicillin 7221
- Cristacortis virus,**
 citrus 3494
- Cristulariella pyramidalis,**
 black walnut 2852 2853
 host plants 2853
- Cronartium comandrae,**
 Austrian pine 4544
 Comandra umbellata 4546
 jack pine 4544 4546
 lodgepole pine 4544
 pine 8847
 ponderosa pine 4544
 Scots pine 4544
- Cronartium comptoniae,**
 loblolly pine 8002
- Cronartium flaccidum,**
 maritime pine 10000
- Cronartium fusiforme,**
 Darluca filum, oak, biological control 2049
 loblolly pine 3609 6386
 loblolly pine, resistance 3610
 loblolly pine, *Scytalidium uredinicola* 5453
 loblolly pine, *Tuberculina maxima* 2835
 oak, biological control, *Darluca filum* 2049
 slash pine 2040 3609 6387
 slash pine, fungicide 2041
 slash pine, *Scytalidium uredinicola* 5453
- Cronartium quercum,**
Quercus prinoides 997
- Cronartium ribicola,**
 eastern white pine 2834
 limber pine 2834
 western white pine 6388
- Cronartium strobilinum,**
Darluca filum, oak, biological control 2049
- Crossopora premnae-tomentosae,**
Premna serratifolia 2662
- Crotalaria juncea,**
 + *Rhizobium*, nodulation, nitrogen fixation 7275
 Phoma glomerata 7115
 Pleospora infectoria 7115
 Prinosheimia 1082
 Rhizobium, rhizosphere streptomycetes 2881
 rhizosphere microorganisms, root exudates 3627
- Crotalaria juncea(Contd),**
 rhizosphere, *Xanthomonas*
 malvacearum/*Pseudomonas*
 solanacearum/*Fusarium*
 moniliforme/*Helminthosporium sativum* 2856
 seed, *Aspergillus flavus* 1838
Stachybotrys atra 2759
 sunn hemp mosaic virus 3530
- Crotocin,**
 protein synthesis 3434
- Crotonaldehyde,**
 ethanol, *Candida utilis* protein 5038
- Crown gall,**
Agrobacterium radiobacter, biological control, agrocin 84 5991
Agrobacterium radiobacter,
 octopine/nopaline/bacteriocin 84 3456
Agrobacterium radiobacter, red raspberry 2756
Agrobacterium tumefaciens, *Agrobacterium radiobacter* agrocin 84 1404
Agrobacterium tumefaciens, almond, biological control 7219
Agrobacterium tumefaciens, apricot, biological control 7219
Agrobacterium tumefaciens, bean 6182
Agrobacterium tumefaciens, carrot 1917
Agrobacterium tumefaciens, *Chrysanthemum morifolium*, antibacterial agent 1920
Agrobacterium tumefaciens, *Lycopersicon esculentum*, hydrocarbons 5437
Agrobacterium tumefaciens, mahaleb cherry 2727
Agrobacterium tumefaciens, mazzard cherry 2727
Agrobacterium tumefaciens, myrobalan plum 2727
Agrobacterium tumefaciens, peach, biological control 7219
Agrobacterium tumefaciens, peach, biological control, *Agrobacterium radiobacter* 2820
Agrobacterium tumefaciens, plum, biological control 7219
Agrobacterium tumefaciens, *Prunus*, biological control 401
Agrobacterium tumefaciens, *Prunus*, biological control, *Agrobacterium radiobacter* 5438
Agrobacterium tumefaciens, radish 1942
Agrobacterium tumefaciens, raspberry 1078
Agrobacterium tumefaciens, topinambur 1917
Prunus, biological control 401
- Crown rot,**
 alfalfa 3458 7108
 alfalfa, resistance 7108
Aspergillus niger, peanut 2679
Erwinia rhapontici, rhubarb 8724
Fusarium solani, sainfoin 4308
Fusarium solani, sainfoin, resistance 7200
Fusarium, wheat, soil 8882
Phytophthora cambivora, cherry 4362
Phytophthora drechsleri, cherry 4362
Phytophthora megasperma, cherry 4362
Sclerotium rolfsii, iris, methyl bromide/pentachloronitrobenzene/methyl bromide + pentachloronitrobenzene 9967
- Crown rust,**
 Avena sativa, oat 4338
 Puccinia coronata avenae, oat 4337 9773
 Puccinia coronata avenae, oat, antifungal agent, plant leaf extracts 1028
 Puccinia coronata, oat, resistance 4449 7199 9933
 Puccinia coronata, oat, triazinedione derivatives 1119
 Puccinia coronata, ryegrass 285
- Crucifer,**
 Peronospora parasitica 9861
 Plasmodiophora brassicae, partial soil sterilant 5424

Subject index

Crucifer(Contd),

- Plasmoidiophora brassicae,
 - pentachloronitrobenzene + hydrated lime 2811
- Sclerotinia sclerotiorum,
 - polymethylgalacturonase/cellulase 3508

Crude oil,

- degradation, arctic tundra soil
 - microorganisms 10107
- microbial degradation, biocides 10110
- microbial protein, animal feed 1766

Crustaceae,

- disinfection/sterilisation, iodine + polyvinylpyrrolidone 967

Cryogenic preservation,

- fungi 2158

Cryptococcus,

- acetoin 3344
- S-adenosylmethionine/methylthioadenosine 871 1687
- allicin 7332
- antibiotic SPA-S-222 6620
- diacetyl 3344
- diaryl-pyridyl-imidazole methanes 4671
- garlic extract 10169
- phacidin 10398
- plant leaf, pollen 2660
- urea hydrolysis, Berthelot colour reaction 6795

Cryptococcus albidus,

- benzoic acid assay 8530
- loganberry, post-harvest decay 6321
- 2-methylthio-5-(3-iodopropargyloxy)-pyrimidine 3705
- nitrate reductase test 10613
- soil, phosphatases, inositol hexaphosphate 10052
- sorbic acid assay 8530
- Swiss stone pine Pseudomonas, amino acids 7229
- tests 1593

Cryptococcus diffluens,

- 2-methylthio-5-(3-iodopropargyloxy)-pyrimidine 3705
- soil, phosphatases, inositol hexaphosphate 10052

Cryptococcus fagi,

- beech 2847

Cryptococcus infirmo-minutus,

- soil, phosphatases, inositol hexaphosphate 10052

Cryptococcus laurentii,

- loganberry, post-harvest decay 6321
- soil, phosphatases, inositol hexaphosphate 10052
- tests 1593

Cryptococcus macerans,

- soil, phosphatases, inositol hexaphosphate 10052

Cryptococcus neoformans,

- alpha-aminolaurophenone/alpha-aminolaurophenone derivatives 5571
- amphotericin B 2232
- amphotericin B, culture medium 3706
- amphotericin B, radiometry 5694
- antibiotic A30641 2241
- blood culture 1592
- D-3,6-diaminohexanoic acid
 - 2-(carboxymethyl)-2-methylhydrazine 2151
- econazole 2974
- identification medium 10616
- 2-methylthio-5-(3-iodopropargyloxy)-pyrimidine 3705
- micronazole 2974
- micronazole, culture medium 3706
- morpholino-N-acetohydrazide hydrazones 2152
- piperidino-N-acetohydrazide hydrazones 2152
- tests 1593
- thiadiazolo-benzimidazole derivatives 8081

Cryptococcus nigricans,

- count, conventional/semi-automated dilution system 3156

Cryptococcus terreus,

- tests 1593

Cryptosporidiosis,

- wood preservative, Graphium 4555

Crystal violet,

- + orseillin BB, stain, fungi 4979

Cucumber,

- brine fermentation, carbon dioxide purging, bloater control 4249
- cherry viruses 299
- Cladosporium cucumerinum 7914
- Colletotrichum lagenarium, biological control 7954
- Colletotrichum lagenarium,
 - 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589
- Colletotrichum lagenarium, thioureidobenzene phosphates 2014
- cucumber mosaic virus 3509 6264 7149 7150
- Cucumis sativus 4385
- Erysiphe cichoracearum 4386
- Erysiphe cichoracearum, pyrazolium
 - derivatives 3581 4511
- Erysiphe cichoracearum, resmethrin 4500
- Erysiphe polyphaga 4291
- Phytophthora capsici,
 - 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589
- Pseudomonas lachrymans 1926 4291 9858 9859
- Pseudoperonospora cubensis, cold treatment 9949
- Pseudoperonospora cubensis, copper compound 2026
- Pseudoperonospora cubensis, light/temperature 9860
- Pythium,
 - 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589
 - resistance, cucumber mosaic virus 7150
 - resistance, Fusarium oxysporum 7955
 - resistance, Pseudomonas lachrymans 3556
 - resistance, Pseudoperonospora cubensis 4466
 - resmethrin, cucumber, Erysiphe cichoracearum 4500
- Rhizoctonia solani/Pythium aphanidermatum, fungicide 380
- Sphaerotheca fuliginea 1056
- Sphaerotheca fuliginea, 2-aminopyrimidine
 - derivatives 395
- Sphaerotheca fuliginea, fungicide 378 4491
- Sphaerotheca fuliginea, imidazo-pyrimidine
 - derivatives 4512
- strawberry latent ringspot virus 4290
- tomato spotted wilt virus 6264
- Cucumber green mottle mosaic virus,
 - melon 7153
- Cucumber mosaic virus,
 - + cabbage black ring virus, Arabis alpina 8676
 - + cabbage black ring virus, Arabis turrita 8676
- Acanthus mollis 9847
- American wineberry 5315
- antiviral agent, plant protection 9984
- Aubretia deltoidea 8676
- bean 257
- Campanula garganica 8676
- Campanula poscharskyana 8676
- carden loosestrife 8705
- chilli 1052 1053
- chilli, antiviral agent 8834
- chilli, plant growth regulators 3555
- Circaea lutetiana 3507
- cucumber 3509 6264 7149 7150
- cucumber, resistance 7150
- Iberis saxatilis 8676
- Lettuce 317 7921

Subject index

Cucumber mosaic virus(Contd),

- Macroptilium atropurpureum 257
- Macroptilium lathyroides 257
- Nicotiana rustica, heat treatment 1995
- plant disease 7749
- Polemonium caeruleum 8676
- purification 3207
- RNA 5, tomato 7938
- sodium dodecyl sulphate 2397
- Solanum laciniatum 7171
- static 330
- thiophosphoric acid ester amide derivatives 1117
- tobacco 4365
- tomato 9899
- turnip 7944
- Urospermum picroides 338

Cucumber necrosis virus,

- sodium dodecyl sulphate 2397

Cucumber pickle,

- Clostridium botulinum, acetic acid 221

Cucumis ativus,

- Erysiphe cichoracearum, pyrazolium derivatives 3581

Cucumis melo,

- Colletotrichum capsici 1066
- Colletotrichum lagenarium 1067 2747 6167
- Cucumis virus 2/cucumber green mottle mosaic virus 7153
- Fusarium oxysporum 1068 2748 4393
- Fusarium oxysporum, dextranase 1835
- Fusarium oxysporum, pectinolytic/cellulolytic enzymes, potassium 7154 7922
- Fusarium oxysporum, soil potassium 7923
- Fusarium solani 3516
- Plasmopara viticola, fungal germanium component 1694
- Pseudoperonospora cubensis 9874
- Pyrenochaeta lycopersici 6251
- resistance, Erwinia tracheiphila 3557
- resistance, Pseudoperonospora cubensis 4466 9874
- rhizosphere microflora/Fusarium oxysporum, foliar nutrient sprays 2065
- Sphaerotheca fuliginea 1056
- Sphaerotheca fuliginea, fungicide 4491
- squash mosaic virus 2746
- Thielaviopsis paradoxa post-harvest decay 9918

Cucumis sativus,

- cherry viruses 299
- Cladosporium cucumerinum 7914
- Colletotrichum lagenarium, biological control 7954
- Colletotrichum lagenarium, 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589
- Colletotrichum lagenarium, thioureidobenzene phosphates 2014
- cucumber mosaic virus 3509 6264 7149 7150
- Erysiphe cichoracearum 4386
- Erysiphe cichoracearum, pyrazolium derivatives 4511
- Erysiphe cichoracearum, resmethrin 4500
- Erysiphe polyphaga 4291
- Phytophthora capsici, 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589
- Pseudomonas lachrymans 1926 4291 9858 9859
- Pseudoperonospora cubensis, cold treatment 9949
- Pseudoperonospora cubensis, copper compound 2026
- Pseudoperonospora cubensis, light/temperature 9860
- Pythium, 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589

Cucumis sativus(Contd),

- resistance, cucumber mosaic virus 7150
- resistance, Fusarium oxysporum 7955
- resistance, Pseudomonas lachrymans 3556
- resistance, Pseudoperonospora cubensis 4466
- Rhizoctonia solani/Pythium aphanidermatum, fungicide 380
- Sphaerotheca fuliginea 1056
- Sphaerotheca fuliginea, 2-aminopyrimidine derivatives 395
- Sphaerotheca fuliginea, fungicide 378 4491
- Sphaerotheca fuliginea, imidazo-pyrimidine derivatives 4512
- strawberry latent ringspot virus 4290
- tomato spotted wilt virus 5254
- watermelon mosaic virus 4385

Cucumis virus 1,

- snakegourd 1950

Cucumis virus 2,

- melon 7153
- Erysiphe cichoracearum 304
- Erysiphe cichoracearum, diphenyl pyrazolium derivatives 1114
- Erysiphe cichoracearum, pyrazolium derivatives 2812
- Sphaerotheca fuliginea 304 1056
- Sphaerotheca fuliginea, fungicide 4491

Cucurbita maxima,

- Erwinia carotovora + Phytophthora cryptogea, pectin methyl-esterase + pectin transeliminase 352
- Phytophthora cryptogea, biological control, Penicillium patulum 372
- pumpkin yellow mosaic virus 3527
- Sphaerotheca fuliginea 1056
- Sphaerotheca fuliginea, fungicide 4491

Cucurbita moschata,

- Ascochyta cucumis 4411
- Fusarium oxysporum 4411
- Fusarium roseum 4411
- Fusarium solani 4416
- Sclerotium rolfsii 2755
- Sphaerotheca fuliginea 1056

Cucurbita pepo,

- Alternaria cucumerina, fungicide 382
- Ceratobasidium 4416
- fungal diseases, plant protection 7966
- Fusarium oxysporum 4416
- Fusarium solani 4416
- pumpkin mosaic virus, tissue culture 791
- Pythium aphanidermatum 4416
- Pythium irregulare 4416
- Rhizoctonia solani 4416
- Sphaerotheca fuliginea 1056
- vegetable marrow mosaic virus, polyethylene glycol-sodium chloride centrifugation 4014
- watermelon mosaic virus 5378
- watermelon mosaic virus, aluminium foil 6346 7984
- watermelon mosaic virus, tree bark extracts 5434
- watermelon virus complex, plant protection 7966

Cucurbitaceae,

- Erysiphe cichoracearum, fungicide 1101

Culmorin,

- Fusarium culmorum 6958

Culture,

- Actinomyces aureofaciens, tetracycline 7417
- aerobic, microorganisms 3151
- Agaricus bisporus, fungi 9602
- Agromyces ramosus 5472
- anaerobic bacteria 3954 5834 7544 8270
- anaerobic bacteria, amorphous ferrous sulphide 6765
- anaerobic bacteria, GasKit disposable hydrogen and carbon dioxide generator 4933

Subject index

Culture (Contd),

anaerobic bacteria, modified plate holding system 10547
 animal cell, multisurface glass roller bottle 6802
 aquatic bacteria, tritiated thymidine 2373
 aseptic plantlet, asparagus 1993
Aspergillus fumigatus, toxin 974
Aspergillus nidulans, conidiation 783
Aspergillus niger 4980
Aspergillus oryzae 5164
 axenic, *Puccinia coronata avenae* 786
 axenic, *Puccinia graminis avenae* 786
 axenic, *Puccinia graminis secalis* 786
 axenic, *Puccinia graminis tritici* 786
 axenic, *Puccinia recondita* 786
Bacillus subtilis cell, *Heliothis armigera* nuclear polyhedrosis virus 4994
 bacteria 754
 bacteria, methanol 767 9250
 bacterial 756 757
 bacterial, hydrostatic pressure 2372
 bacterial, incubator 7539
 bacterial mutant, carbon dioxide assay 2374
 batch, *Aerobacter aerogenes* 4940
 batch, *Alcaligenes eutrophus* 3172 3173
 batch, *Klebsiella aerogenes* 4951
 batch, *Lactobacillus delbrueckii* 3979
 batch, methanol, *Trichoderma lignorum* 6843
 batch, microorganisms 3944 3946 4152
 batch, *Saccharomyces cerevisiae* 758
 batch, *Thiobacillus ferrooxidans*, iron oxidation 8931
Bdellovibrio bacteriovorus 9269
 blood, bacteraemia 1555
 blood, bacteria, API-20E system 5835
 blood, bacterial L-form 4939
 blood, *Candida albicans* 2392
 blood, fungi 1592
 blood, Gram stain 4930
 blood, microorganisms 768
 blood, *Pseudomonas aeruginosa* 2384
 blood, *Serratia marcescens*, non-sterile blood collection tube 4966
 blood, single-bottle system 10522
 bovine cell, mucosal disease virus, quality control 8109
 bovine leukocyte cell, foot-and-mouth disease virus 4006
 buffalo embryo cell, Newcastle disease virus, vaccine 9301
Candida 8292
Candida boidinii, methanol 4003
Candida methanolica, methanol 780
Candida parapsilosis, alkane 4914
Candida utilis 782
Candida utilis, purity, immunofluorescence 5857
 cell 9311
 cell, *Chlamydia*, gentamicin 611
 cell, fish viruses 5867
 cell, influenza virus 10632 10633
 cell, microrespirometer chamber 1602
 cell, *Mycobacterium leprae* 3985
 cell, *Mycobacterium lepraemurium* 3982 3985
 cell, *Mycoplasma*, fluorescent Hoechst 33258 stain 6800
 cell, persistent infection, antiviral agent 3711
 cell, *Rickettsia*, gentamicin 611
 cell, Sendai virus 4013
 cell, *Treponema pallidum* 3195 4002
 cell, vaccinia virus 10640
 cell, varicella-zoster virus 793
 cell, virus, gentamicin 611
 cell, virus vaccine 1605
 cell, virus vaccines 655 1446
 cell, viruses 1605
Cellulomonas 8272
Ceratocystis montia 10620

Culture (Contd),

chemostat, *Bacillus licheniformis*, acetic acid, redox potential 8313
 chemostat, *Bacillus licheniformis*, penicillinase 5913
 chemostat, *Bacillus licheniformis*, phosphatase 5913
 chemostat, *Bacillus licheniformis*, protease 5913
 chemostat, *Bacillus licheniformis*, ribonuclease 5913
 chemostat, *Bacillus megaterium* 5839 9268
 chemostat, *Candida boidinii*, methanol 6825
 chemostat, *Candida utilis* 9292 9293
 chemostat, *Candida utilis*, computer 10619
 chemostat, *Escherichia coli*, glucose 10561
 chemostat, flow microcalorimeter 7562
 chemostat, *Klebsiella aerogenes* 4951
 chemostat, *Methanobacterium*, *Citrobacter*, methane 8937
 chemostat, methanol, *Hansenula polymorpha*, methanol oxidase 4982
 chemostat, microorganisms 1541 4152 10515
 chemostat, *Mycobacterium*/*Nocardia* + *Pseudomonas* + *Moraxella* + *Methylococcus*, methane 10097
 chemostat, *Saccharomyces cerevisiae* 1595
 chick embryo chorioallantoic membrane, *Chlamydia psittaci* 8298
 chick embryo fibroblast cell, HEPES buffer, CEO virus 4989
 chick embryo fibroblast cell, HEPES buffer, Marek's disease virus 4989
 chick embryo fibroblast cell, HEPES buffer, Newcastle disease virus 4989
 chick embryo fibroblast cell, HEPES buffer, turkey herpesvirus 4989
 chick kidney cell, HEPES buffer, CEO virus 4989
 chick kidney cell, HEPES buffer, Marek's disease virus 4989
 chick kidney cell, HEPES buffer, Newcastle disease virus 4989
 chick kidney cell, HEPES buffer, turkey herpesvirus 4989
Choanephora cucurbitarum, light 3199
Clostridium acetobutylicum 5164
 compost, mushroom 1759
 continuous, *Aerobacter aerogenes* 4940
 continuous, *Bacillus brevis*, gramicidin S synthetase 2473
 continuous, *Bacillus brevis*, protease 42
 continuous, *Bacillus licheniformis*, penicillinase 5087 5913
 continuous, *Bacillus licheniformis*, phosphatase 5913
 continuous, *Bacillus licheniformis*, protease 5913
 continuous, *Bacillus licheniformis*, ribonuclease 5913
 continuous, *Bacillus megaterium*, penicillin amidase 5087
 continuous, bacterium 4944
 continuous, *Candida* 107, lipid 6006
 continuous, *Candida*, lipid, fatty acid 6007
 continuous, *Candida utilis* 9292 9294
 continuous, cellulose, *Trichoderma viride*, cellulase 6877
 continuous, continuous multistage tower fermenter 89
 continuous, *Escherichia coli* 1568 2379
 continuous, fungal mycelium 7578
 continuous, *Hydrogenomonas eutropha* 5844
 continuous, *Klebsiella aerogenes* 4951
 continuous, marine bacteria 5836
 continuous, microbial L-glutamic acid 9332
 continuous, microbial L-lysine 9334
 continuous, microorganisms 752 1540 2357 3944 3945 3946 4152 8264 9245 10516

Subject index

Culture(Contd),

continuous, microorganisms, column fermenter 9246
 continuous, oral bacteria,
 hydroxyapatite-coated glass beads 6767
 continuous, *Saccharomyces cerevisiae* 7582 10622
 continuous, sterile medium, membrane filtration 3149
 continuous, *Thiobacillus ferrooxidans*, iron oxidation 8931
 continuous, *Torulopsis*, glucose/hexadecane 2913
 continuous, yeast 779 1589
Cordyceps militaris, insecticide 6965
Corynebacterium diphtheriae, toxin 6772
 cyanide, microorganisms 2536
 dairy starter 922
 duck embryo fibroblast cell, HEPES buffer, CEL0 virus 4989
 duck embryo fibroblast cell, HEPES buffer, Marek's disease virus 4989
 duck embryo fibroblast cell, HEPES buffer, Newcastle disease virus 4989
 duck embryo fibroblast cell, HEPES buffer, turkey herpesvirus 4989
 enrichment, azotophage, soil, *Azotobacter vinelandii* 7253
 enrichment, *Beggiatoa*, soil 430
Escherichia coli 774 7557
 ethanol, *Candida utilis* 1
 ethanol, *Candida utilis*, biomass 804 805
 ethylene, *Candida utilis* 1190
 exponential-fed batch, microorganisms 5163
 extended/exponentially-fed-batch, microorganisms 7530
 fall armyworm cell, *Autographa californica* nuclear polyhedrosis virus 4010
 fed batch, microorganisms 8267
 fodder yeast 1719
Fomes durissimus 2042
 glucose, *Streptococcus cremoris*, acetate 4196
 glucose, *Streptococcus diacetylactis*, acetate 4196
Haemophilus gallinarum, vaccine, fowl coryza 10431
 Hela cell, vaccinia virus cytotoxin 5282
 human cell, mycotoxins 5260
 human MG-63 cell, interferon 10179
 hydrogen bacteria, dissolved hydrogen concentration 7561
 hydrogen bacterium 10563 10564
 hydrogen-oxidising bacteria 1569
 insect cell, amphotericin B/amphotericin B methyl ester 10325
 insect cell, viruses 4009
Klebsiella aerogenes, thermogram, flow microcalorimetry 7563
Lactobacillus bulgaricus + *Streptococcus thermophilus* 150
 lipid-rich yeast 9479
Lophodermium pinastri 1136
Lophodermium pinastri, fungicide 1147
Lophodermium pinastri, Scots pine 2841
 macrophage, *Mycobacterium leprae* 3181
 mathematical model 2986
Methanobacterium ruminantium 4954
Methylomonas methanica, methane, oxygen 5518
 microbial 755 3150 5164
 microbial, automated aseptic sampling + storage system 4916
 microbial, calorimeter 758
 microbial, carbon assay 6754
 microbial growth curve, Rao's covariance adjusted estimators 10518
 microbial, optical density 2360
 microbial, thermodynamics 8265
 microorganisms 753 2356 3942 3943 3946 3989 4917 4983 5877 9255 9494 9495 9496 10519

Culture(Contd),

microorganisms 10520 10605
 microorganisms, carbon dioxide transport, microbial film 5820
 microorganisms, fermentation tower packing coating 4918
 microorganisms, fermenter, foam breaker, fluid impact dispersion apparatus 5818
 microorganisms, gas chromatography 5882
 microorganisms, hydrocarbons 10096
 microorganisms, mathematical optimization 4915
 microorganisms, methanol 9249
 microorganisms, Monte Carlo simulation 6748
 microorganisms, oxygen, hydrogen peroxide 7531
 microorganisms, oxygen transfer coefficient 6750
 microorganisms, tubular loop fermentor 6967
 microorganisms, zero gravity 4031
 mixed microorganisms 8266
 mouse footpad cell, *Mycobacterium leprae* 3984 7568
 mouse, *Mycobacterium leprae* 3983
 mushroom, *Chaetomium cellulolyticum* 1760
 mushroom, compost 5235
Mycobacterium lepraemurium 9312
Mycobacterium tuberculosis 4958
Neisseria gonorrhoeae 2383 3989 5848
Nocardia asteroides 1574
Nocardia brasiliensis 1574
Nocardia caviae 1574
 organ, microrespirometer chamber 1602
 peat + wood neutralisates, *Candida scottii* 2433
Penicillium chrysogenum 5164
Pichia 8292
Pichia guilliermondii, alkane 4914
Polyanthes tuberosa leaf, *Sclerotium rolfsii* 6799
Polyporus versicolor 6867
Proteus vulgaris 8280
Pseudomonas C 782
 rabbit cornea cell, aflatoxin B1 assay 2627
 rabbit cornea cell, rubratoxin B assay 2627
Rhizobium japonicum, tower air lift fermenter 5851
Rhizoctonia bataticola 1084
Rhodotorula 8292
Ruminococcus flavefaciens 6783
Saccharomyces 8292
Saccharomyces carlsbergensis, microbial film fermenter 3352
Saccharomyces cerevisiae 1719 2396 4986 5860 6796 9295
Saccharomyces cerevisiae cell, *Heliothis armigera* nuclear polyhedrosis virus 4994
Saccharomyces cerevisiae, computer 1598
Saccharomycopsis 8292
Salmonella, poultry litter 2387
 semi-batch, microorganisms 10521
 semibatch, microbial amino acid 816
 soybean callus, southern bean mosaic virus 5294
Spirillum lipoferum 3296 4967
Staphylococcus aureus small-colony-forming variants 4969
 starter bacteria, American cheese 7751
 stationary, microorganisms 6749
Streptococcus 2383
Streptococcus cremoris, cheese starter 153
Streptococcus diacetylactis, cheese starter 153
Streptococcus faecalis, hydrostatic pressure 7576
Streptococcus lactis, cheese starter 153
Streptomyces griseus 10605
Streptomyces, turbidimetry 4001
 submerged, *Pleurotus ostreatus*, exponential growth kinetics 7585

Subject index

Culture (Contd).

submerged, *Polyporus versicolor*, exponential growth kinetics 7585
suspension, microorganisms 5819
synchronous, *Escherichia coli* 3975
synchronous, microorganisms 10517
synchronous, *Streptomyces griseus* spores 7577
tissue, aflatoxin B1 2628
tissue, antiviral agent, thioxanthene bis-basic ketones 1248
tissue, antiviral agent, xanthene/xanthone bis-basic ketones 1249
tissue, mycoplasma-like organism, stolbur, tobacco 767
tissue, Mycoplasma, quality control 549
tissue, plant, virus disease, plant protection 9950
tissue, pumpkin mosaic virus 791
tissue, Rous sarcoma virus, polyethylene glycol-uronase concentration 4012
tissue, *Treponema pallidum* 3195
tissue, vaccine/interferon 789
tobacco callus, tobacco mosaic virus 5294
tobacco tissue, fusaric acid 7066
Torulopsis 8292
Torulopsis methanolovescens, methanol 780
Torulopsis utilis, cellulose waste 5862
Trichoplusia ni cell, Autographa californica nuclear polyhedrosis virus 4011
Trichosporon 8292
urine, cystine-lactose electrolyte deficient medium + droplet plating 3963
urine, stained urine smears, microscopy 3964
Vero cell, *Escherichia coli* enterotoxin assay 7089
viruses 9309 9311 10625
Xanthomonas campestris, maintenance 7360
yeast 782
yeast, ethanol 781
yeasts, disintegration 10618
yeasts, purity, immunofluorescence 5857
Culture apparatus,
7691
microorganisms 751 1539 9496 10519
Saccharomyces carlsbergensis, brewery 8438
Culture chamber,
anaerobic bacteria 10544
microorganisms 7548
microscope, *Ustilago bullata* 9298
Culture collection,
fungi 8291
microbial 3155
microorganisms 8263 8302 10514
Culture medium,
see also Medium 4931
acidified potato dextrose agar/non-acidified chlortetracycline potato dextrose agar, fungi, food 1591
Actinomyces spheroides, fibrinolytic enzyme 44
air screening device 1510
Allomyces arbuscula 3198
Allomyces macrogynus 3198
amines, yeasts 4168
amphotericin B, antifungal agent 3706
anaerobic bacteria 5834
anaerobic bacteria, swine faeces 4938
arginine, Mycoplasma 3212
Arthrobacter simplex, cholinesterase 22
Aspergillus versicolor, sterigmatocystin 988
Bacillus brevis, gramicidin S 678 4805
Bacillus mesentericus, gelatinase 6891
Bacillus, pyrolysis gas liquid chromatography 7547
bacteria 10583
Bipolaris sorokiniana, sterigmatocystin 988
blood agar, streptococcus group A, bacitracin 4971
blood, anaerobic bacteria 10550

Culture medium (Contd).

blood, microcalorimetry 10523
Bordetella pertussis + Staphylococcus aureus 769
brain heart infusion blood agar, Neisseria gonorrhoeae 7570
brewery bacteria 7699
Campylobacter fetus 772
casamino acids, Bacteroides melaninogenicus 4942
catalase, Clostridium 7552
Cercospora fusimaculans 1022
Citrobacter freundii 3970
Clostridium perfringens 2376
Clostridium perfringens enterotoxin 7085
Columbia colistin-nalidixic acid agar, Haemophilus vaginalis 3976
corn stunt Spiroplasma 10590 10591
Dictyostelium discoideum 9304 10642
Escherichia coli 7557
ethanol, Candida utilis 8294
fish peptone, microorganisms 9252
fungi, quality control 9023
Fusarium 7584
Fusarium, Gramineae 8295
Glomus mosseae, soil 784
glucosamine/glucosamine derivatives, Treponema phageogenis 2390
heat-injured Vibrio parahaemolyticus 9259
Helminthosporium sativum, Gramineae 8295
Helminthosporium spiciferum, wheat 1042
hyaluronic acid, Mycobacterium leprae 7567
hypertonic, bacteria 3961 3962
Hyphomycetes, uricase 866
Lactobacillus 7565
Lecithin-cholesterol liposome, Mycobacterium 2381
lignin-degrading bacteria 1563
lyophilised, microbial 750
methanol, Canoida loidinii, Kcsenbrock's method 5856
miconazole, antifungal agent 3706
microbial 794
Micrococcus luteus 9276
Micrococcus radiodurans 9276
Micrococcus radiophilus 9276
Micrococcus roseus 9276
Micrococcus varians nuclease 1665
Micromonospora purpurea, gentamicin 9091
microorganism 9251
mushroom 9600
Mycobacterium lacticum 9278
Mycobacterium lacticum, polysaccharide 2918
Mycobacterium leprae 3987
Mycobacterium lepraemurium 3981
Mycobacterium tuberculosis, Streptococcus salivarius/Streptococcus faecalis 3986
Mycoplasma 8278
Mycoplasma hominis 8278
Mycoplasma pneumoniae 8278
Mycoplasma, serum protein 2402
Neisseria gonorrhoeae 5848 10582
oleic acid albumin agar, Mycobacterium bovis 10573
Paecilomyces persicinus, cephalosporin C 4749
Pasteurella haemolytica 10583
Pasteurella multocida 10583
peat hydrolysate, yeast, protein/biomass/carotenoid 2434
Penicillium chrysogenum, penicillin 590 2216
Penicillium cyano-fulvum, patulin 236
Penicillium javanicum, protease 8391
Penicillium roqueforti, patulin 236
peptone-starch-dextrose agar, Haemophilus vaginalis 3976
Petri dish 2359
Physarum gymnosum, antibiotic 2238
Pilobolus crystallinus 5659

Subject index

Culture medium(Contd),

- Pilobolus kleinii 5859
- Pleurotus sapidus 2394
- potato starch waste, *Penicillium digitatum*, protein/biomass 2430
- pre-reduced anaerobically sterilised, anaerobic bacteria 7543
- protozoan, fungicide, 5-fluorocytosine 9024
- Pseudomonas aeruginosa*, antibiotic sensitivity testing 6549
- Pseudomonas*, dissolved oxygen 3190
- Puccinia graminis tritici* 787
- Rothia dentocariosa* 4943
- rumen bacteria 3169
- rumen fluid, rumen bacteria 9265
- rye germ, *Lactobacillus brevis* 4953
- rye germ, *Lactobacillus delbrueckii* 4953
- rye germ, *Lactobacillus plantarum* 4953
- rye germ, *Leuconostoc mesenteroides*, dextran 4957
- Salmonella* 775
- Salmonella dublin* 776
- Salmonella gallinarum*, freezing-thawing 778
- selenobiotin, microbial 7532
- silica gel, *Aspergillus flavus*, aflatoxins 1801
- silica gel, *Aspergillus parasiticus*, aflatoxins 1801
- skin milk, starter bacteria 7746
- sodium chloride, methanogenic bacteria, methane 8042
- sodium chloride, *Vibrio parahaemolyticus* 5223
- soybean whey, yeasts, biomass-protein 6838
- Sphaceloma curcuma* 3203
- Spirillum citri* 10590
- Staphylococcus aureus*, low ultraviolet absorptivity 4968
- Staphylococcus aureus*, white cheese 1743
- sterilisation, hydrogen peroxide 8104
- sterilizer 10004
- Streptococcus* 3996
- Streptococcus agalactiae* 1581
- Streptococcus mutans* 1582 1583
- Streptomyces venezuelae* sporulation pigment 7681
- sucrose agar, brewery *Lactobacillus* 5170
- sucrose agar, brewery *Peptococcus* 5170
- sulphate-reducing bacteria 10089
- Swiss cheese whey, *Kluyveromyces fragilis* 4004
- Thielavia terricola* 1004
- thymidine 5275
- titanium citrate, anaerobic bacteria 4934
- Trichoderma lionorum*, cellulase 19
- Tricholoma matsutake* 5863 5864
- Tween 80, *Trigonopsis variabilis* 10624
- urinary tract infection 4931

Culture vessel,

- Rhodospirillum rubrum* 7572

Cuman,

- Alternaria cepulicola*, onion 4492
- Colletotrichum lagenarium*, bottlegourd 6357
- Colletotrichum lagenarium*, watermelon 6357
- Macrophoma rhasaeolina*, papaya 2802
- seed treatment, *Colletotrichum lindemuthianum*, lablab 2824

Cumbu,

- Cercospora fusimaculans*, culture medium 1022

Cumin,

- Erysiphe umbelliferarum* 1911

Cuminum cyminum,

- Erysiphe umbelliferarum* 1911
- seed, *Aspergillus flavus* 1838

Cuminella mirabilissima,

- Mahonia aquifolium* 4368

Cunninghamella,

- pigeon pea rhizosphere 6422

Cunninghamella blakesleeana,

- cardenolide hydroxylation 5104

Cunninghamella blakesleeana(Contd),

- kaur-16-en-19-oic acid transformation 3327
- laudanoline dealkylation, pseudocodamine 77

Cunninghamella echinulata,

- fennel rhizoplane, subamycin 2863
- methylenethiazuron degradation 5193
- soil, caomium 8018

Cunninghamella elegans,

- sewage sludge degradation 1465

Cupramar,

- Thielavia terricola*, sesame 381

Cupric hydroxide,

- Diaporthe citri*, grapefruit 2722
- Erwinia carotovora*, celery 6259
- Gnomonia leptostyla*, black walnut 10016

Cuprimyxin,

- antibacterial agent/antifungal agent 2970
- Pityrosporum canis* 5566

Cuprous oxide,

- Phaeocryptopus gaeumannii*, Douglas fir 1126
- Phytochthora palmivora*, cacao 6302

Cuprox,

- Melampsora larici-populina*, poplar 2047

Curcuma caesia,

- oil, antifungal agent 5567

Curcuma longa,

- extracts, antifungal agent, plant protection 9956

Curcuma zedoaria,

- extract, antifungal agent 3695

Curd,

- Staphylococcus aureus* 4195

Curd rot,

- cauliflower, antibiotics 402

Curdlan,

- bacterial, X-ray fibre diffraction 7672

Cured pork,

- pickles + microorganisms 3395

Curing,

- bacon, brine quality control 4241
- bacon, nitrate 525A
- meat 7050

Curly top,

- sugarbeet 8731

Curly top virus,

- pepper, resistance 5939

Curry powder,

- coliform 1761
- Enterobacter hafniae* 1761
- Enterobacter liquefaciens*, curry powder, *Pectobacterium* 1761
- Escherichia coli* 1761
- Klebsiella ozaenae* 1761
- Klebsiella pneumoniae* 1761

Curtobacterium,

- glucose isomerase 9401

Curtobacterium alvedum,

- glucose isomerase 9401

Curtobacterium citreum,

- glucose isomerase 9401

Curtobacterium helvolum,

- glucose isomerase 9401

Curtobacterium luteum,

- glucose isomerase 9401

Curtobacterium pusillum,

- glucose isomerase 9401

Curvularia,

- corn 4330 8635
- cotton seed 2737
- cowpea seed 1848
- Egyptian clover 9762
- Parthenium hysterophorus* extract 2932
- safflower, seed treatment fungicide 8838
- sugarcane 6229
- sunflower seed 1957

Curvularia affinis,

- rice seed 1880

Curvularia eragrostidis,

- auricula tree 1837
- green gram 1010

Subject index

- Curvularia geniculata**,
 guanidine derivatives 8C41
- Curvularia inaequalis**,
 immobilised beta-galactosidase 4890
 wheat 6233
- Curvularia lunata**,
 brefeldin A 10356
 butenolide hydroxylation 5103
 cardenolide hydroxylation 5104
 chalcone 7347
 cluster bean, fungicide 2002
 cotton, pectic enzymes 5083
 fenugreek seed 1017
 flavanone derivatives 1018E
 flavone 7347
 flavone derivatives 1018E
 garlic juice 8987
 jute seed, seed dressing fungicide 2825
 large cardamon 4224
 pectic enzymes 5083
 phytoxin, corn 6159
 pigeon pea rhizosphere 6422
 rice seed 1880
 soil fungistasis 2061
 Streptomyces volatile compounds 8986
 thiabendazole, plant protection 2818
 Vitex negundo 1837
 wheat grain 9804
- Curvularia oryzae**,
 Curcuma caesia oil 5567
- Curvularia pallescens**,
 rice seed 1880
 rose flowers, gallic acid 8072
 rubber 1081
- Curvularia specifera**,
 rice seed 1880
- Curvularia trifolii**,
 turfgrass 1873
- Curvularia tritici**,
 Vitex negundo 1837
- Curvularia verruculosa**,
 cowpea seed 1848
 Datura metel 1837
- Curvularin**,
 alphabeta-dehydro-, Alternaria tomato 4139
 beta-hydroxy-, Alternaria tomato 4139
 Penicillium baghdadi 5148
- Cuscuta hyalina**,
 fruit tree virus 1610
- Custard pie**,
 frozen storage, microorganisms 9686
- Cutinase**,
 Fusarium roseum/Fusarium solani 1646
- Cutting fluid**,
 fungi, isolation media 477
- Cutting oil**,
 bacteria, dipslide 5837
 microorganisms, filtration 7287
- Cyamopsis sporalioides**,
 Alternaria cyamopsidis 2672
 Thielavia terricola, culture medium 1004
- Cyamopsis tetragonoloba**,
 Colletotrichum capsici, sporulation 1001
- Cyanamide**,
 calcium, soil microorganisms 6452
- 3-Cyanamino-2,6-dinitroaniline**,
 derivatives, fungicide, plant protection 9976
- Cyanide**,
 activated sludge microorganisms 7482
 microbial 2536
 microbial system 117
 microorganisms 2536
 sewage, treatment 1491
 wastewater, activated sludge treatment 687
 wastewater, treatment, activated sludge 3860
 wastewater, treatment, Nocardia rubropertincta 1473
- 2-Cyano-2-hydroxyiminoacetamide**,
 derivatives, antifungal agent, plant protection 1104
 derivatives, fungicide, plant protection 1105
- alpha-Cyano-alpha-hydroxyimino-acetamide**,
 derivatives, fungicide, plant protection 8810
- 2-Cyanoacetamide**,
 derivatives, fungicide, plant protection 9974
- Cyanoalkyl sulphonate**,
 derivatives, fungicide, plant protection 7980
- 5-Cyanoalkyl-thiadiazolylurea**,
 derivatives, fungicide, plant protection 1113
- Cyanobenzyl cyclopropane carboxylate**,
 fungicide 6510
- Cyanodithioimidocarbonic acid**,
 derivatives, bactericide/fungicide 1261
- Cyano(methylmercuri)guanidine**,
 Sclerotium rolfsii, brinjal 2011
 Sclerotium rolfsii, peanut 2011
- Cyanophage AS-1**,
 purification 7589
- Cyanourea**,
 bactericide/fungicide 2140
- Cyathus striatus**,
 striatins, antibacterial agent/antifungal agent 9155
- Cyclacillin**,
 3027
 antibacterial agent 3028 3029
 dimerization 9C80
 Enterobacteriaceae 6557
- Cyclo-C**,
 acyl derivatives, antiviral agent 5588 5589
- Cycloaminocarbodithioate**,
 2-(2-methyl)-5-nitro-1-imidazolyl)ethyl esters, antibacterial agent 1216
- Cycloate**,
 Rhizoctonia solani, sugarbeet 7969
- Cyclochlorotin**,
 Penicillium 975
- 2,2'-Cyclocytidine**,
 antiviral agent 522
- Cyclodepsipeptide**,
 beauverolide H, Beauveria bassiana 6834
 beauverolide I, Beauveria bassiana 6834
 destruxins, Metarrhizium anisopliae 5896
- Cyclodextrin**,
 Bacillus cyclodextrin-glycosyl-transferase 9445
 Bacillus stearothermophilus cyclodextrin glycosyltransferase 4081
 immobilised Bacillus cyclodextrin glycosyltransferase 5939
- Cyclodextrin glucanotransferase**,
 Klebsiella pneumoniae 5940
- Cyclodextrin-glycosyl-transferase**,
 Bacillus, starch, cyclodextrin 9445
- acid-Cyclodextrin glycosyltransferase**,
 Bacillus 3264
- neutral-Cyclodextrin glycosyltransferase**,
 Bacillus 3265
- Cyclodextrin glycosyltransferase**,
 Bacillus 848 2462
 Bacillus macerans 7619
 Bacillus stearothermophilus 4081
 immobilised, Bacillus, cyclodextrin 5939
- Cyclohexane**,
 Pseudomonas oleovorans, 1,7-octadiene epoxidation, 7,8-epoxy-1-octene, 1,2,7,8-diepoxyoctane 9482
- Cyclohexene**,
 + ozone, phage phiX174, air 8204 8205
- Cycloheximide**,
 + polyinosinic acid-polycytidylic acid, interferon 10160

Subject index

Cycloheximide(Contd),

- + polymeric film, *Alternaria solani*, tomato 374
- Lophodermium pinastri*, red pine 114^c
- Lophodermium pinastri*, Scots pine 1145
- Penicillium stoloniferum* fast-moving virus 521
- resistance, fungi 5001
- Streptomyces*, antifungal agent 4633
- structure 10364
- tobacco necrosis virus, *Chenopodium amaranticolor* 4425
- Trametes badia* 1270

Cyclohexylamine,

- derivatives, bacteriostat/fungistat, paper products 10091

Cyclohexylamine oxidase,

- Pseudomonas* 9379

Cyclonerodiol,

- Fusarium culmorum* 83

Cyclonerotriol,

- Fusarium culmorum* 83

Cyclopentane-1,4-dione,

- 2-substituted-4(R)-hydroxy, fungi 4140

Cyclopiasonic acid,

- Aspergillus flavus* 4265
- food 7055

Cyclopropa(b)naphthalene,

- tetrahydro-, derivatives, antibacterial agent/antifungal agent 4692

Cyclopropyl,

- alkyltin derivatives, bactericide/fungicide 1260

Cycloserine,

- derivative, antibacterial agent 650
- Mycobacterium farcinicum* 4648
- Mycobacterium phlei* 4648
- Mycobacterium smegmatis* 4648
- Mycobacterium tuberculosis* 4642

D-Cycloserine,

- resistance, *Bacillus subtilis* 8056 8057

D-Cycloserine bitartrate,

- Clostridium* isolation medium 3377

Cyclosporin A,

- iodo-, structure 1411

Cydia pomonella,

- insecticide, *Erwinia* 891
- insecticide, *Pseudomonas* 891

Cylindrocarpon,

- beech/spruce bark degradation 2829
- soil, fungistasis 5482

Cylindrocarpon candidum,

- beech 1155

Cylindrocarpon destructans,

- perennial ryegrass rhizosphere, chloropicrin 457

- Xiphinema bakeri*, Douglas fir 8^c44

Cylindrocarpon radiculicola,

- progesterone transformation, androsta-1,4-diene-3,17-dione, 1-dehydrotestolactone 5981
- progesterone transformation, androstadienedione 8400
- soil fungistasis, theoretical colonization index 2862

Cylindrocarpon tonkinense,

- quava post-harvest decay 7189
- tomato post-harvest decay 7189

Cylindrocarpon willkommii,

- beech 1155

Cylindrocladium crotalariae,

- peanut, aerial infrared imagery 6191
- peanut, resistance 8766
- peanut soil, elutriator 1167
- soil, selective medium 8021

Cylindrocladium floridanum,

- soil 2895

Cylindrocladium quinqueseptatum,

- Eucalyptus alba* 4535

Cylindrocladium quinqueseptatum(Contd),

- Eucalyptus bigalerita* 4535
- Eucalyptus clavigera* 4535
- Eucalyptus confluens* 4535
- Eucalyptus crebra* 4535
- Eucalyptus ferruginea* 4535
- Eucalyptus lirata* 4535
- Eucalyptus oligantha* 4535
- Eucalyptus patellaris* 4535
- Eucalyptus phoenicea* 4535
- Eucalyptus umbrawarrensii* 4535
- Melaleuca magnifica* 4535
- Tristania conferta* 4535

Cylindrocladium scoparium,

- tomato post-harvest decay 1776

Cylindrophora fagi,

- beech 1155

Cylindrosporium,

- triazino-benzimidazole derivatives, plant protection 3588

Cylindrosporium pruni cerasi,

- sour cherry 9828

Cymbidium,

- cymbidium ringspot virus 6143
- mycorrhiza 4573

Cymbidium mosaic virus,

- Cattleya* 6281

Cymbidium ringspot virus,

- Cymbidium* 6163
- white clover 6163

Cymbopogon citratus,

- Puccinia naleanishiki* 997

Cymopsis tetragonoloba,

- Curvularia lunata*, fungicide 2002

Cynara scolymus,

- Leveillula* 4297

Cynodon dactylon,

- + *Spirillum*, nitrogen fixation 5501
- Cynodon mosaic virus* 1874

Cynodon mosaic virus,

- Bermuda grass 1874

Cynodontin,

- Cercospora* 7826

Cypendazol,

- resistance, *Colletotrichum coffeanum*, coffee 2921

Cyperaceae,

- Cortium sasakii* 7888
- vesicular-arbuscular mycorrhiza 4567

Cyperus esculentus,

- Puccinia romagnoliana* 997

Cypress,

- Echinodontium taxodii* 5448
- Lawson, *Phytophthora cinnamomi* 7999
- Lawson, *Phytophthora cinnamomi*, fungicide 8543
- Veluticeps berkeleyi* 5448

Cyrofraction,

- fungi, scanning electron microscopy 10606

Cyrtococcum trigonum,

- Balanis claviceps* 2686

Cyrtosperma chamissonis,

- virus diseases 8674

Cystaurimycin,

- antibacterial agent/antifungal agent 10332

Cysteine,

- Arthrobacter* 3230
- Brevibacterium* 3230
- cowpea, assay, *Leuconostoc mesenteroides* 10567
- Escherichia coli* RNA polymerase 1676
- Mycobacterium* 3230

L-Cysteine,

- bacterial cysteine desulphhydrase 6829

Cysteine desulphhydrase,

- bacteria, L-cysteine 6829

Cysteine sulphilimine,

- bacteriostat 2111

Cysteine,

- cowpea, assay, *Leuconostoc mesenteroides* 10567

Subject index

- Cystine-lactose electrolyte deficient medium,**
urine culture 3963
- Cystine-trypticase agar,**
Neisseria gonorrhoeae 1573
- Cytobacter ferrugineus,**
arid soil 2858
- Cytobacter fuscus,**
arid soil 2858
- Cytobacter minus,**
arid soil 2858
- Cytoscope,**
low-temperature steam/formaldehyde autoclave,
disinfection/sterilisation 4695
steam sterilisation 6536
- Cytarabine,**
see Cytosine arabinoside
- Cythocline lyrata,**
essential oil, antibacterial agent 5548
- Cytoadherence method,**
Salmonella dublin vaccine 3832
- Cytochalasin-1,**
kodo-, structure 6143
- Cytochalasin A,**
Saccharomyces 633
- Cytochalasin H,**
Pharopsis 985
structure 6143
- Cytochrome,**
Micrococcus lysodeikticus 2436
Saccharomyces cerevisiae, storage 3741
- Cytochrome c,**
Rhodopseudomonas viridis photochemical
reaction centre 6944
- Cytochrome c3,**
Desulfovibrio desulfuricans 3245
- Cytochrome c-551.5,**
Desulfuromonas acetoxidans 6945
- Cytochrome oxidase,**
bacterial 3216
Pseudomonas, structure 8359
Rhodopseudomonas palustris 1647
- Cytochrome P450cam,**
Pseudomonas putida, Raman spectrum 7603
- Cytocide,**
mycotoxins 5260
- Cytokinin,**
Agrobacterium tumefaciens, high-performance
liquid chromatography 5992
6-(4-hydroxy-3-methyl-cis-2-butenylamino)-2-methylthiopurine, Corynebacterium fascians
5993
rhizosphere bacteria 3628
Scots pine, Suillus variegatus 6381
tobacco ringspot virus, cowpea 8608
tomato, Verticillium dahliae 8744
- Cytomegalovirus,**
3-deazaguanine/3-deazaguanosine/3-deazaguanyl
ic acid 10183
human, immunofluorescence/complement fixation
1607
interferon 7339
phosphonoacetic acid 1243
- Cytomegalovirus vaccine,**
1447
- Cytophaga,**
Pacific shrimp 7020
- Cytophaga johnsonae,**
protein, mesquite, cattle feed 196
- Cytoplasmic membrane,**
Pseudomonas aeruginosa 6821
- Cytosine deaminase,**
Pseudomonas aureofaciens 832
Serratia marcescens 831
- Cytosine diphosphate,**
phosphorylation, Streptomyces aureofaciens
nucleoside diphosphokinase 3298
- Cytospora,**
8291
stone fruit trees 9817
- Cytospora chrysosperma,**
aspen 2043
- Cytospora cincta,**
apricot 2720
apricot, plant protection 9827
- Cytospora follicola,**
beech 1155
- Cytospora kunzei,**
Douglas fir 10006
Norway spruce 8853
spruce 10006
- Cytospora leucostoma,**
apricot 9818
peach 9818
peach, benomyl 2023
plum 9844
prune 1507
- Cytospora nivea,**
aspen 2043
- Cytosporaella,**
stone fruit trees 9817
- Cytosporina,**
apricot 3493
grapevine 7492
- Cytostatic agent,**
bredinin 6417
- Cytotoxic agent,**
deoxyterphenyllin, Aspergillus candidus 239
terohenyllin, Aspergillus candidus 239
- Cytotoxic antibiotic,**
5122
- Cytotoxin,**
vaccinia virus, HeLa cell culture 5282
vermiculine 5999
- 2,4-D,**
see also 2,4-Dichlorophenoxyacetic acid
fungicide, fruit/vegetable post-harvest decay
1965
mycorrhizal fungi 8917
- D-value,**
Bacillus stearothermophilus, steam
sterilisation 10206
- Daconil,**
Premia lactucae, lettuce 4391
Colletotrichum lagenarium, bottlegourd 6357
Colletotrichum lagenarium, watermelon 6357
seed treatment, Pythium ultimum, cotton 9952
seed treatment, Rhizoctonia solani, cotton
9992
Septoria tritici, wheat 9964
Stemphylium botryosum, lettuce post-harvest
decay 4438
Verticillium fungicola, mushroom 2017
- Dacrydium,**
heartshake, podocarpic acid, antibacterial
agent/antifungal agent 7234
- Dacrydium nausoriensis,**
heartshake, podocarpic acid, antibacterial
agent/antifungal agent 7234
- Dacrydium nidulum,**
heartshake, podocarpic acid, antibacterial
agent/antifungal agent 7234
- Dactylaria pyriformis,**
nematocide 4149
nematode-attracting substance 4149
- Dactylaria thaumasia,**
nematocide 4149
nematode-attracting substance 4149
- Dactylella spermatophaga,**
fungal oospore parasite, soil 8881
- Dactylis glomerata,**
Claviceps purpurea 286
cocksfoot streak virus, electron microscopy
5210
Erysiphe graminis 7875
fungal diseases 8641

Subject index

Dactylis glomerata(Contd),

Helminthosporium 8641
Helminthosporium catenarium 2699
Helminthosporium siccans 7875
Mastigosporium rubricosum 7875 8641
Puccinia striiformis dactylidis 7121
Rhynchosporium orthosporum 7875 8641
silage 2600
waste, soil, microorganisms 10040

Dactylum dendroides,

antibiotic, antifungal agent/antibacterial agent 2237

Dactylomyces crustaceus,

enzymes 9350

Dactylorhiza purpurella,

mycorrhiza 4573

Daedalea rufescens,

dioxigenated Salpha-pregnane hydroxylation 2508

Daemia extensa,

Cercospora daemiicola 598

Dahi,

colostrum, Streptococcus/Lactobacillus 1730
Streptococcus/Lactobacillus 4163

Dahlia,

leaf extract, tobacco mosaic virus, Nicotiana glutinosa 3590

Dahlia pinnata,

Erysiphe cichoracearum 304

Dairy,

effluent, treatment, Enterobacter liquefaciens/Serratia atypique 3115
effluent, treatment, lagoon 4858
waste, treatment 7740
wastewater treatment 8225
water, sterilisation 6715

Dairy culture,

pesticide 1725

Dairy industry,

antibacterial agent, nisin 8540
disinfectants 6743
starter bacteria 6049
Streptococcus cremoris, phage carrier state 7745

waste, treatment 8226

wastewater, assay 7477

wastewater, food/animal feed 9185

Dairy product,

4202 7739

acetoin, yeasts 3344

aflatoxin M1 9688

aflatoxin M1 + aflatoxin B1, assay 7059

Agrobacterium polysaccharide 6044

Alkaligenes polysaccharide 6044

butter-like, Streptococcus

diacetylactis/Streptococcus

cremoris/Streptococcus citrovorus 1728

diacetyl, yeasts 3344

fermented, lactase 7002

fermented, shelf-stable 4237

heat-stressed Staphylococcus aureus, paper

strip method + enrichment medium 5211

injured coliforms, recovery medium 145

Klebsiella pneumoniae 1737

Lactobacillus bifidus 6044

Lactobacillus bulgaricus + Streptococcus

thermophilus 150

microbiology 8472

mycotoxins 224

preservation 6811

Pseudomonas fragi 921

Pseudomonas graveolens 921

Staphylococcus aureus 1726

Staphylococcus aureus, paper strip method 8473

starter bacteria 7744

sterile 6124

Streptococcus lactis peptidase 9564

viruses 124

Dairy starter,

bacteria 6050

bacteria, cheese 6049 6052 7740

bacteria, cheese, citrate 6047

bacteria, cultured butter 6049

bacteria, fermented milk product 6055

bacteria, fermented milk products 6056

bacteria, hard cheese 6057

bacteria, lyophilisation preservation,

celatine capsule 7359

bacteria, milk products 6049

bacteria, preservation 7358

Cheddar cheese 8499

cheese 6051

culture, American cheese 7751

dairy product 7744

Lactobacillus bulgaricus 6054

Lactobacillus cremoris 6054

oasta filata cheese 9563

skim milk culture medium 7746

Streptococcus 1733

Streptococcus cremoris 6054

Streptococcus diacetylactis 6054

Streptococcus diacetylactis, Streptococcus

lactis 8492

Streptococcus lactis 6054

Streptococcus, lysogenic strain 2574

Streptococcus thermophilus 6054

tyrosine decarboxylase/histidine

decarboxylase 8493

Dairy utensil,

Staphylococcus, enterotoxin 2648

Dairy waste,

activated sludge treatment 6696

Fusarium moniliforme, gibberellic acid 4117

treatment 679 1461 8223 8224

Dairy wastewater,

spray irrigation disposal 3873

treatment 3859 9183

Dairy whey,

treatment 6695

Daisy,

African, Phytophthora cryptogea 3510

Killian, Septoria leucanthemi, fungicide

3570

Dalapon,

milk/milk product microbiology 1725

soil microorganisms, dehalogenase 4600

Damavaricin,

streptovaricin, Streptomyces spectabilis,

antibacterial agent 634

Damavaricin C,

antitumour antibiotic 2526

derivatives, antitumour antibiotic 5997

Damping-off,

fungi, Egyptian clover 9762

Fusarium lateritium, cockscomb 311

Fusarium solani, Austrian pine, Bacillus

subtilis seed treatment 10001

Fusarium solani, lentil, plant

protection/fungicide 2789

Phytophthora, chilli, plant protection 7145

Phytophthora megasperma, soybean, pyroxychlor

seed treatment 2030

Phytophthora, tomato, plant protection 5392

plant, Pythium, soil 6433

Pythium aphanidermatum, bean 2069

Pythium aphanidermatum, tomato 1085

Pythium aphanidermatum, tomato, resistance

1086

Pythium butleri, tomato 5394

Pythium, chilli, plant protection 7145

Pythium, cucumber,

7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine

derivatives 3589

Pythium myriotylum, bean 2069

Pythium, tomato, plant protection 5392

Pythium ultimum, bean 2069

Pythium ultimum, bean, resistance 8765

Subject index

Damping-off(Contd),

Pythium ultimum, letil, plant protection/fungicide 2769
Rhizoctonia bataticola, chilli, bavistin 637C
Rhizoctonia, chilli, plant protection 7145
Rhizoctonia solani, Beta vulgaris 1954
Rhizoctonia solani, cotton, biological control, *Bacillus subtilis*/*Penicillium patulum* 372
Rhizoctonia solani, cotton, seed treatment fungicide 8836
Rhizoctonia solani, lentil, plant protection/fungicide 2765
Rhizoctonia solani, okra 1069
Rhizoctonia solani, okra, seed treatment fungicide 9993
Rhizoctonia solani, soybean 8619
Rhizoctonia solani, sugarcane 8895
Rhizoctonia solani, tomato, plant protection 5392
Thanatephorus cucumeris, jute 8703
Thielavia terricola, cluster bean, culture medium 1004
Thielavia terricola, sesame, culture medium 1004
Thielavia terricola, sesame, fungicide 381
Daphne cneorum,
Daphne virus Y 3511
Daphne odora,
Daphne virus Y 3511
Daphne virus Y,
Daphne odora/*Daphne cneorum* 3511
Dapsone,
 derivatives, *Mycobacterium intracellulare* 10132
Mycobacterium intracellulare 10132
DARC/PELCO system,
 adamantanamine derivatives, influenza virus 2964
Darluka filum,
Cronartium fusiforme, oak, biological control 2049
Cronartium strobilinum, oak, biological control 2049
Dasonit,
 soil fungi 3653
Dasheen mosaic virus,
 taro 334
Date palm,
 date, *Phyllosticta helleborella* 1836
 wild, *Xylaria minuta* 1057
Datura,
Xanthomonas vesicatoria 6249
Datura innoxia,
Corticium solani 1058
Datura metel,
Cochliobolus lunatus 1837
Cochliobolus specifer 1837
Curvularia verruculosa 1837
Drechslera 1837
 eggplant rhizosphere mycoflora 7634
 grapevine leafroll virus, 7915
Nigrospora oryzae 1837
 potato virus Y 1059
Datura stramonium,
 Cymbidium mosaic virus 6281
 tobacco mosaic virus 2657
 tomato yellow leaf curl virus 8739
Daucus carota,
Agrobacterium tumefaciens 1917
Alternaria dauci 9855
Botrytis cinerea post-harvest decay 4434
 6319 6816-9911 9912
 carrot motley dwarf virus 6257 8684
 carrot thin leaf virus 6257 8684
 celery mosaic virus 3499
Centrospora acerina post-harvest decay 4435
Erwinia carotovora/*Erwinia chrysanthemi* 310 1051

Daucus carota(Contd),

Erysiphe heraclei 1002 7906 7907
Erysiphe polvoni 4376 4377
Erysiphe umbelliferarum 1911
 post-harvest decay, gamma-irradiation 1966
Pythium 3505
Pythium sulcatum, *Olpidium brassicae*, tobacco necrosis virus, *Pythium* root dieback 8685
Sclerotium rolfsii 7142
Thielaviopsis basicola, colo treatment 9945
Daunomycin,
 + ultraviolet radiation/mitomycin C, bactericide 5747
 antiviral agent 1222
 bacterial reduction 1487
 daunomycinone transformation, *Streptomyces aureofaciens*, dihydrodaunomycinone 7428
Streptomyces peucetius 877
Streptomyces steffii enzyme 6634
Daunomycinol,
 daunorubicin/N-acetyl-daunorubicin reduction 8418
Daunomycinone,
 transformation, *Streptomyces aureofaciens*, dihydrodaunomycinone 7428
Daunorubicin,
 13-dihydro-,
 daunorubicin/N-acetyl-daunorubicin reduction 8418
 N-acetylation, *Bacillus cereus*, antitumour antibiotic 9459
 derivatives, DNA 9121
 microbial reduction, 1-dihydrodaunorubicin 8418
 microbial reduction, antitumour 20,798 R.P. 9457
 N-acetyl-, microbial reduction, 13-dihydrodaunorubicin 3418
 N-acetylated derivatives, mass spectrometry 2527
 nuclear magnetic resonance spectroscopy 3338
Streptomyces epsilon-rhodomycinone, 7-deoxy-daunorubicinol aglycone 9460
Daunorubicinol,
 N-acetylation, *Bacillus cereus*, antitumour antibiotic 9459
 daunorubicin/N-acetyl-daunorubicin reduction 8418
Daunorubicinol aglycone,
 7-deoxy, *Streptomyces*, daunorubicin 9460
Daxomet,
 mycorrhiza 4609
 partial soil sterilant, *Plasmodiophora brassicae*, crucifer 5424
Salmonella, poultry egg 733
 tobacco rattle virus, *gladiolus* 4480
DD-MENCS,
 fungal diseases, squash 7966
 soil fumigation, *Fusarium*, asparagus 9965
 soil fumigation, *Fusarium oxysporum*, spinach 1951
 soil fumigation, *Pythium*, spinach 1951
DDT,
 analogues, degradation, *Pseudomonas* 902
 p-chlorophenylacetate degradation, *Arthrobacter* 120
 degradation, soil microorganisms 8034
 derivatives, degradation, *Pseudomonas putida* 4172
 estuarine water bacteria 4884
 microbial degradation 9526
Deacetoxycephalosporin C,
 microorganisms 10262
Deacetoxycephalothin,
 bacteriolytic agent 4754
Deacylating enzyme,
Comamonas, 7-amino-cephems 2202
Pseudomonas ovalis, 7-amino-cephems 2202

Subject index

Deacylation,

- 7-aminocephalosporanic acid derivatives, microbial acylase 2207

Dead-arm,

- Eutypa armeniaca, grapevine 9872
- Eutypa armeniaca, grapevine 9871
- Phomopsis viticola, grapevine 9873
- Phomopsis viticola, grapevine, fungicide 9966

Dead arm disease,

- Phomopsis viticola, grapevine 7917

Death,

- microorganisms, rate constant 5921

3-Deazaguanine,

- antiviral agent 10183

3-Deazaguanosine,

- antiviral agent 10183

3-Deazaguanilic acid,

- antiviral agent 10183

3-Deazauridine,

- Japanese B encephalitis virus 6521

Debarioidine,

- Candida albicans 1412
- Debariomyces kloeckeri 1412

Debaryomyces,

- S-acenosylmethionine/methylthioadenosine 871 1687

- dry sausage 7770

Debaryomyces hansenii,

- autolysis 1716

- flow microcalorimetry cell 7581

- Saint-Nectaire cheese 161

Debaryomyces kloeckeri,

- autolysis 1716

- debarioidine 1412

- extract 5885

Debaryomyces membranefaciens,

- food 7719

- extract 5885

Debaryomyces vanriji,

- biomass-protein, soybean whey culture medium 6838

Decahydroquinoline,

- phosphorylthio-acetyl derivatives, fungicide, plant protection 4513

Decamethoxin,

- Candida albicans, thermogenesis 2971
- Staphylococcus aureus, thermogenesis 2971

Decamine,

- Shigella + Candida albicans 5631

Decane,

- Pseudomonas NAD-dependent alkane dehydrogenase 6857
- Pseudomonas NAD phosphate-dependent alkane hydroxylase 6857

Decanol,

- antiviral agent 5585

Dechlorination,

- effluent disinfection 3113

Decline,

- apple 6239
- mycoplasma-like organism, pear, fluorescence microscopy 1047
- Paecilomyces buxi, Fusarium oxysporum, English boxwood 10C11
- pear, terramycin, pressure machine, tree injection 7996

Decompression,

- cell disintegration 5822

Deconjugation,

- bile acid, Lactobacillus 4169

Deer,

- feed, silage 6107

Degradation,

- acid anilide fungicides, soil Nocardia 1179
- acylanilide, Bacillus sphaericus, aryl acylamidase 901

Degradation(Contd),

- aflatoxin B1, Corynebacterium rubrum/Aspergillus niger/Mucor ambiguaus/Trichoderma viride, aflatoxin B1 8558
- aircraft fuel tank, Aspergillus fumigatus 7223
- aldrin, soil bacteria, exo-dieldrin 10074
- algal organic matter, bacteria, reservoir water 5797
- alkanes, Mucorales 10105 10106
- alkylbenzene sulphonate, Bacillus 899
- alkylbenzene sulphonate detergent, Bacillus 4167
- alkylbenzene sulphonate, Pseudomonas 899
- alkylbenzene sulphonate, Serratia 899
- alkylsulphate detergent, Comamonas terrigena 6979
- alkylsulphohydrolase 6979
- alkylsulphate detergent, Pseudomonas 6979
- alkylsulphohydrolase 6979
- amines, yeasts 4168
- amitrole, soil bacteria 7281
- arginine, Enterobacteriaceae, Nessler's reagent 4936
- asulam, soil microorganisms 10079
- bacteria, waste, protein/enzymes/vitamins 2313
- bacterial, coal 10083
- bacterial, codeine 118
- bacterial, dodecylbenzene sodium sulphonate, water 6725
- bacterial, fulvic acid 3366
- bacterial, lignin 8459
- bacterial, manure, methane, scum drag 1183
- bacterial, morphine 118
- bacterial, phenol 9528 9529
- bacterial, pyrazon, pyrazon dioxygenase 7656
- bacterial, 2,4,6-trinitrotoluene 123
- barley glucan, Bacillus pumilus lichenanase 852
- beech, Chaetomium globosum, ultraviolet/fluorescence microscopy 5466
- beech, Corirolellus palustris, ultraviolet/fluorescence microscopy 5466
- beech, Coriolus versicolor, ultraviolet/fluorescence microscopy 5466
- beech wood, Coriolus versicolor 10022
- benefin, soil microorganisms 10080
- benzoic acid, soil Pseudomonas 6019
- bile acid, Lactobacillus 4169
- caffeine, Pseudomonas putida 904
- camphor, Pseudomonas aeruginosa 1187
- camphor, Pseudomonas putida 1187
- carbofuran, soil fungi 10076
- carbofuran, soil microorganisms 10075
- carbon substrates, soil fungi 9522
- carboxymethylloxysuccinate, sewage sludge bacteria 5187
- catechol, Rhizobium 6021
- cellulose, fungi, cellulose pulp 1707
- cellulose, Fusarium solani cellulase, sugar 5925
- cellulose, Gilmaniella humicola, soil 6429
- cellulose, Micromonospora 8454
- cellulose, microorganisms 5881
- cellulose, Penicillium funiculosum cellulase, sugar 5925
- cellulose, Poria placenta, wood 10025
- cellulose, rumen bacteria 5934
- cellulose, Trichoderma koningii cellulase, sugar 5925
- cellulose, Trichoderma viride cellobiase 5054
- cellulose, Trichoderma viride cellulase, glucose 8453
- cellulose, Trichoderma viride cellulase, sugar 5925
- cellulose waste, Diplodia gossypina, animal feed 9610

Subject index

Degradation(Contd),

8-chloro-10,11-dihydrodibenz(b,f)(1,4)oxazepine, fungi 4137
 4-chlorobenzoic acid, *Arthrobacter* 4171
 p-chlorophenylacetate, *Arthrobacter* 120
 chloropham, *Hendersonula toruloidea*, soil 4601
 chloropham, *Stachybotrys atra*, soil 4601
 cholesterol, *Actinomyces lavendulae* 5190
 citronellol, soil *Pseudomonas* 5192
 Clostridium botulinum toxin, rumen bacteria 3445
 2,4,6-collidine, soil coryneform 3364
 condensed tannin, *Penicillium adametzi* 3372
 cotton, microbial cellulase 5189
 creatine, *Pseudomonas putida*, enzymes 2461
 crude/fuel oil, estuarine microorganisms 478
 crude oil, arctic tundra soil microorganisms 10107
 crude oil, sea water bacteria 4620 4621
 dalapon, soil microorganisms 4600
 DDT analogues, *Pseudomonas* 902
 DDT derivatives, *Pseudomonas putida* 4172
 DDT, soil microorganisms 8034
 dextran, microbial dextranase 6980
 dibenzothiophene, *Pseudomonas aeruginosa* 4173
 2,4-dichlorophenoxyacetic acid, *Hendersonula toruloidea*, soil 4601
 2,4-dichlorophenoxyacetic acid, *Stachybotrys atra*, soil 4601
 1,3-dichloropropene, soil microorganisms 10078
 dimethyl phthalate, *Pseudomonas aeruginosa* 6981
 2,6-dinitro-N-(3-pentyl)-alpha,alpha,alpha-trifluoro-p-toluidine, soil microorganisms 10080
 diquat, *Aspergillus niger* 4602
 diquat, *Mucor hiemalis* 4602
 diquat, *Penicillium frequentans* 4602
 diquat, *Zygorhynchus heterogonus* 4602
 ephedrine, *Arthrobacter globiformis* 900 8455
 2-ethylpyridine, soil coryneform 3364
 European beech bark, *Chaetomium globosum* 4552
 European beech bark, *Coniophora cerebella* 4552
 European beech bark, *Polystictus versicolor* 4552
 ferulic acid, *Rhizobium* 6021
 fungal, carbon substrates 9521
 fungal, cellulose 4170
 fungal, glass-ceramic 905
 fungal, polyvinylchloride building sealant 4279
 fungal, road-building Lignin mineral powder 8934
 fungal, sewage sludge 1465
 fungal, wood cellulose 6402
 gentisic acid, *Rhizobium* 6021
 geraniol, soil *Pseudomonas* 5192
 grass-fructosane, *Lactobacillus brevis*, silage 6106
 grass-fructosane, *Lactobacillus casei*, silage 6106
 grass-fructosane, *Lactobacillus plantarum*, silage 6106
 guar gum, *Bacillus* 5191
 halogenated anilines, soil *Paracoccus* 8035
 herbicide, soil microorganisms 5503
 hexachlorocyclohexane, *Clostridium sphenoides* 8456
 hexadecane, fungi, heptachlor 4624
 hydrocarbon, bacteria, sea water 2912
 hydrocarbon, *Pseudomonas aeruginosa* 1187
 hydrocarbon, *Pseudomonas putida* 1187
 hydrocarbon, sea water bacteria 4620
 hydrocarbon, soil microorganisms 8045 10108

Degradation(Contd),

hydrocarbons, estuarine water microorganisms 1186
 p-hydroxybenzoic acid, *Rhizobium* 6021
 hydroxycinnamic acid, *Polyporus circinata* 121
 2-hydroxypyridine, soil *Arthrobacter pyriinolis*, pigment 4129
 insecticide SD E2P0, soil 455
 insecticides, soil microorganisms 4598
 leaf litter, soil fungi, microbial culture filtrates 10051
 lichenan, *Bacillus pumilus* lichenanase 852
 lignin, bacteria, culture medium 1563
 lignin, *Coriolus versicolor* 419
 lignin, fungi 6403 9524
 lignin, fungi, cellulose pulp 1707
 lignin, *Phanerochaete chrysosporium* 419
 lignin, soil microorganisms 6982
 lignin, *Sporotrichum culverulentum*, phenol oxidase 2052
 Lignocellulose, *Thermoactinomyces celluloseae*, protein 9345
 lignocellulosic waste, *Pleurotus ostreatus*, protein, cattle feed 10448
 limonene, soil *Pseudomonas* 5192
 linalool, soil *Pseudomonas* 5192
 lindane, soil microorganisms 10077
 linuron, *Bacillus sphaericus*, aryl acylamidase 901
 locust bean gum, *Bacillus* 5191
 2,4-lutidine, soil coryneform 3364
 lysine, *Enterobacteriaceae*, Nessler's reagent 4936
 malathion, salt-marsh bacteria 6413
 mancozeb, soil *Bacillus* 8923
 mandelic acid, *Pseudomonas convexa* 903
 beta-mannan, soil *Streptomyces* 9525
 meat protein, microorganisms 5230
 (-)-menthone, *Pseudomonas putida* 7708
 mesquite, bacteria 8457
 methanbenzthiazuron, *Cunninghamella echinulata* 5193
 methyl benzimidazol-2-yl carbamate, *Aspergillus nictulans* 5194
 methylcellulose, activated sludge 2554
 microbial 4498 5012 5185 5186 5920
 microbial, acid neat bog 10039
 microbial, aflatoxin B1 7063
 microbial, alkyl benzenesulphonate 4166
 microbial, Alvison-8 2897
 microbial, atrazine, soil 3655
 microbial, beech/spruce bark 2829
 microbial, cellulose 5927 5928 5929 5933 6020 6814
 microbial, cellulose, ethanol 6013
 microbial, cellulose, methane 9348
 microbial, cellulose waste, methane 5188
 microbial, crude oil, biocides 10110
 microbial, crude oil, sea water 4622
 microbial, cyanide 117
 microbial, cyanide, wastewater, activated sludge treatment 687
 microbial, DDT 9526
 microbial, diaminomaleonitrile 3365
 microbial, 2,4-dichlorophenoxyacetic acid, river water 7707
 microbial, environmental chemicals 3363
 microbial, ethylenediaminetetraacetate, soil, sediment 7250
 microbial, fulvic acid, soil 3366
 microbial, fungal spores, soil 432
 microbial, gasoline, lake water 8540
 microbial, gasoline, polluted water 481
 microbial, hexachlorophene, effluent 689
 microbial, hydrocarbon 1188 1189 1708
 microbial, hydrocarbon, sea water 3661
 microbial, insoluble polymers 116
 microbial, iodophor 3921
 microbial, keltane 8458

Subject index

Degradation(Contd),

microbial, lake water 10482
microbial, leaf litter 9523
microbial, lignin 4174
microbial, lignin model compound 3367
microbial, lignocellulose, soil, radioisotope technique 8665
microbial, malaoxon, soil 4599
microbial, malathion 9527
microbial, methoxychlor 8458
microbial, metribuzin, soil 3655
microbial, nitrilotriacetic acid 9523
microbial, non-ionic surface-active agents, river water 4175
microbial, non-ionic surfactant, activated sludge, polyester fibre industry waste 3861
microbial, oil, beach gravel 8046
microbial, oil, sea water 1185
microbial, organophosphate insecticide 113
microbial, oxethane wastewater 6708
microbial, pentachlorophenol, wastewater 688
microbial, pesticides 112 9527
microbial, pesticides, food 1758
microbial, petroleum 1184
microbial, phenylamide pesticide, river water 6023
microbial, plastic packaging, accelerators 2370
microbial, plastics 5195
microbial, polyesters 7709
microbial, polyethoxylate non-ionic surfactant 115
microbial, polyethoxylate non-ionic surfactant, assay 7710
microbial, polyethylene 4178
microbial, purines 119
microbial, pyrimidines 119
microbial, ramie 111
microbial, rubber latex 10093
microbial, sludge 1451
microbial, soil 5135 5186 6410
microbial, vulcanized rubber 122 6983
microbial, waste 5786
microbial, wood 9995
microbial, wood chips 6404
microbial, xenobiotic 7706
mine rubberized ventilation tube, fungi 4180
mycobacillin, soil 8924
nitrophenol, *Bacillus*, soil, parathion 6448
nitrophenol, *Pseudomonas*, soil, parathion 6448
non-ionic surfactants, activated sludge bacteria 1709 1710
Norway spruce bark, *Chaetomium globosum* 4552
Norway spruce bark, *Coniophora cerebella* 4552
Norway spruce bark, *Polystictus versicolor* 4552
octane, *Pseudomonas aeruginosa* 1187
octane, *Pseudomonas putida* 1187
oil, bacteria, mercury 4623
oil, estuarine sediment bacteria 7289
oil, sea water bacteria 4856
oil, sea water microorganisms 6462
organic matter, Arctic soil micromycetes 2864
ornithine, *Enterobacteriaceae*, Nessler's reagent 4934
paint, *Aureobasidium pullulans*, wood 2550
paint film, fungal enzymes 4177
paint film, fungi/bacteria 4176
paper, fungi 2551
paraquat, *Aspergillus niger*, soil 4602
paraquat, *Mucor hiemalis*, soil 4602
paraquat, *Penicillium frequentans*, soil 4602
paraquat, *Zygorhynchus heterogamus*, soil 4602
parathion, *Pseudomonas aeruginosa* 114

Degradation(Contd),

penicillin G, *Bacillus stearothermophilus*
D-alanine carboxypeptidase,
5,5-dimethyl-2-thiazoline-4-carboxylic acid 4141
pentachlorophenol, soil bacteria 8919
pentachlorophenol, soil *Pseudomonas* 10062
pesticide, immobilised bacterial hydrolase 5454
petroleum, estuarine bacteria, enrichment 7290
petroleum, estuarine water/sediment bacteria, numerical taxonomy 10109
petroleum, marine bacteria 480 10111
phenanthrene, *Aeromonas* 2552
phenol, activated sludge microorganisms 8216
phenol, *Pseudomonas putida* 3368
phercic, *Rhizotium* 6021
phenylcarbamate, *Bacillus sphaericus*, aryl acylamidase 901
phorate, *Aspergillus niger* 1711
phorate, *Bacillus megaterium* 1711
photodielsdorff, *Trichoderma viride*, soil 2894
phthalic acid esters, bacteria 3369
phthalic acid, soil bacteria 2057
plant cell wall, *Penicillium citreo-viride* enzyme 6852
plastics, fungal 2553
polycaprolactone, *Penicillium* 1712
polyethylene glycols, sewage bacteria 6022
polynorbornene glycol, activated sludge/soil bacteria 9530
pork, *Clostridium perfringens* 2581
proform, *Bacillus sphaericus*, aryl acylamidase 501
protocatechuic acid, *Rhizobium* 6021
pyrazon, bacteria, 4-oxalocrotonate decarboxylase 5197
pyrazon, bacteria, pyrocatechase 5196
pyrazone, soil microorganisms 1176 1177
quaternary ammonium compound, sewage soil/bacteria 7711
quinoline, soil *Moraxella* 3371
R.A., *Micrococcus luteus* polynucleotide phosphorylase 7712
salicylic acid, *Rhizobium* 6021
Scots pine wood, *Peniophora mutata* 10022
beta-sitosterol, *Nocardia*, ketosteroids 8401
sodium dodecyl sulphate, sewage bacteria 2555
soil organic matter, soil microorganisms 8665
spruce, *Chaetomium globosum*, ultraviolet/fluorescence microscopy 5466
spruce, *Coriellus palustris*, ultraviolet/fluorescence microscopy 5466
spruce, *Coriolus versicolor*, ultraviolet/fluorescence microscopy 5466
spruce, *Fomitopsis pinicola* 5467
squalene, *Arthrobacter* 6984
Staphylococcus aureus N-acetylglucosaminyl ricitol teichoic acid, *Bacillus circulans* enzyme 864
Staphylococcus aureus alpha-toxin,
Staphylococcus protease 2651
starch, *Klebsiella pullulanae* 9432
starch, *Trichoderma viride*, amylolytic enzymes 4181 4182
stone, pigeon excrement microorganisms 4183
straw/alfalfa, soil microorganisms, fungicide/bactericide/microbiocide 8927
straw, soil microorganisms, microbiocides 8925 8926
straw, soil microorganisms, microbiocides, nitrification 8929
syngonic acid, *Rhizobium* 6021
terephthalic acid, soil bacteria 2057
terpenes, degradation 6984
alpha-terpineol, *Pseudomonas aeruginosa* 2556

Subject index

Degradation(Contd),

- tetramethylthiuram disulphide, soil microorganisms 4611
- thiram, soil microorganisms 4611
- trifluralin, soil microorganisms 10080
- vanillic acid, Rhizobium 6021
- versicolin, soil 8924
- waste treatment 3883 3884 3885
- wheat straw, soil, acetic acid, phytotoxin 7251
- wood, *Aspergillus niger*, mannanase 1660
- wood, Basidiomycetes, selective medium 7245
- wood chips, *Aspergillus fumigatus* 10023
- wood, forest soil 6401
- wood, fungi 7244
- wood, fungi, agar-stick breaking-radius test 4550
- wood, fungi, cellulose pulp 1707
- wood, marine water, microorganisms 7507

Dehalogenase,

- soil microorganisms, dalapon 4600

Dehydrated vegetable,

6129

Dehydration,

- sublimation, bacteria 2981

Dehydroacetic acid,

- fungicide, animal feed/plant protection 2794

Dehydrocholic acid,

- Staphylococcus* 7316

(-)-Dehydrocurvularin,

- Cercospora* 7826

alpha-Dehydrocurvularin,

- Alternaria* tomato 4139
- Aspergillus aureofulgens* 8428

Dehydrocaffeic acid delactone,

- Inonotus* 5149

Dehydrogenase,

- Acetobacter melanogenum*, D-sorbitol, L-sorbose 2512
- NADP-dependent, microbial, affinity chromatography 23
- soil, fertilizer 5506
- soil, tetrazolium chloride 7248

delta-Dehydrogenase,

- immobilised *Corynebacterium simplex*, cortisol transformation, prednisolone 5977

Dehydrogenation,

- cortisol, *Bacillus cereus* 59
- steroid alkaloid, *Nocardia restrictus* 9439

1,2-Dehydrogenation,

- microbial 5978

1-Dehydrostololactone,

- progesterone transformation, *Cylindrocarpon radicola* 5981
- progesterone transformation, *Fusarium solani* 5981

12-Dehydroxylase,

- Bifidobacterium*, 12-dihydrosteroids 867
- Clostridium*, 12-dihydrosteroids 867
- Clostridium perfringens*, 12-dihydrosteroids 867
- Clostridium welchii*, 12-dihydrosteroids 867

Dehydroxylation,

- aminoglycoside antibiotic 6561

Deightonella argemoneensis,

- Mexican prickly poppy 4394

Deisovaleryl-blastomycin,

- Streptomyces*, antifungal agent 5722

Dekamycin,

- Streptomyces fradiae*, antibacterial agent 8180

Delonix regia,

- + *Rhizobium*, nodulation, nitrogen fixation 8900

Delphinium,

- mycoplasma-like organisms, electron microscopy 4387

Delphinium ajacis,

- Pythium ultimum*, fungicide 2805

Delphinium cultorum,

- Erysiphe ranunculi* 304

Delvotest P,

- Pacillus stearothermophilus*, penicillin, milk, 2565

- penicillin, milk 6594

Dematium pullulans,

- pullulan 8408

Demeclocycline,

- oat seed treatment 10236
- Phytophthora parasitica*, Piper beetle 9970
- polarography 3053
- Ureaplasma urealyticum* 5626

Demephion,

- sugarbeet yellows virus, sugarbeet 365

Demethylchlorotetracycline,

- see Tetracycline, demethylchlor-

Brucella 7420

- mycoplasma, witches' broom, *Angelonia salicariaefolia* 3500

- Streptomyces phanaensis*, fast neutron irradiation 9527

- vitamins/nicotinamide/p-aminobenzoic acid 2991

2-0-De-methylglaucine,

- glaucine transformation, *Streptomyces griseus* 6554

N-De-methylincomycin,

- see Lincomycin, N-demethyl-

2-0-De-methylpsoromic acid,

- Usnea* 5023

Demeton-s-methyl,

- sugarbeet yellows virus, sugarbeet 365

Demissidine,

- dehydrogenation, *Nocardia restrictus* 9439

Demosan,

- Fusarium oxysporum* 4484
- Fusarium oxysporum*, wheat 2801
- seed treatment, *Pythium ultimum*, cotton 9992
- seed treatment, *Rhizoctonia solani*, cotton 8836 9992
- seed treatment, *Rhizoctonia solani*, okra 9993
- seed treatment, *Sclerotium rolfsii*, lentil 4523
- Verticillium dahliae*, brinjal 4489

Demosan 65WP,

- Fusarium oxysporum*, ginger 2007

Dendrobacillin,

4711

Dendrobium,

- Botrytis*, *Botrytis cinerea* 9870

L-Dendroketose,

- Acetobacter* suboxydans, alditol oxidation 8403

Dendropanax trifidus,

- dendrotrifidiol/dendrotrifidate/dendrotrifidiol one acetate, antifungal agent 10168

Dendrotrifidate,

- antifungal agent 10168

Dendrotrifidiol,

- antifungal agent 10168

Dendrotrifidiolone acetate,

- antifungal agent 10168

Dendrophylla salina,

- guanidine derivatives 8041

Dendryphon,

- soil 2632

Dengue-2 virus,

- vaccine 4831

Dengue-2 virus vaccine,

4831

Denitrification,

- columnar, closed-system salmon aquaculture 4873
- fixed-film, high-strength industrial nitrate waste 10452
- flooded soil 5485
- Hyphomicrobium, methanol, wastewater 5780
- industrial wastewater 9178

Subject index

Denitrification(Contd),

- nitrate, soil, nitrogen isotope effect 8889
- 8890
- nitrogen fertilizer, soil 1171
- pig waste 9179
- rhizosphere 3642
- rhizosphere, mineral fertilizer 3656
- rice rhizosphere 3643 10042
- septic tank effluent, *Thiobacillus*
- denitrificans 1464
- soil 441 443 444 3641 6434 8269
- soil, acetylene assay 10057
- soil aeration 2054
- soil, *Eacillus filaris*/*Eacillus polymyxa* 442
- soil bacteria 7263 7264
- soil, potato wastewater 4608
- soil, *Pseudomonas fluorescens* 2372
- soil, *Pseudomonas stutzeri* 8491
- soil, weather 3620
- Spirillum lipoternum*, soil 5499 5500
- swine manure slurry 1457
- waste treatment 3119 8269
- wastewater 1480 1483 3116 3881
- wastewater treatment 3122 6711
- water-sediment system 9225

Denitrifying bacterium,

- nitrate reductase, activated sludge/drinking water 5942

Denmert,

- fungicide, plant protection 7210

Densitometry,

- fluoro-, citreoviridin 6142
- ultraviolet-, citreoviridin 6142

Density,

- beer, gas-bubble probe 1701

Dental calculus,

- alexidine dihydrofluoride 1533
- bis-biguanide 9244
- oral composition 1534
- quaternary ammonium compounds 1535 2145 2146

Dental caries,

- alexidine dihydrofluoride 1533
- bis-biguanide 9244
- dentifrice 2334
- fluoride 1532
- fluoride + monofluorophosphate, dentifrice 3931
- fluoride mouthwash 7529
- fluorine/phosphate/calcium-containing ion-exchange resins, dental caries 8262
- iodine-containing compounds, antibacterial agent 10504
- monofluorophosphate composition 1534
- monofluorophosphate, dentifrice 3930
- oral hygiene 747
- quaternary ammonium compounds 1535 2145 2146
- therapeutic agent 746
- toothpaste 10503

Dental clinic water,

- microbial aggregates 10479

Dental floss,

- 1531

Dental plaque,

- 10446
- Actinomycetaceae*, isolation medium 6768
- alexidine dihydrofluoride 1533
- antibacterial agent, hydroxyapatite-coated glass beads 2107
- bacteria, continuous culture, hydroxyapatite-coated glass beads 6767
- benzethonium polymer 1536
- bis-biguanide 9244
- bis-biguanide hexane compound 8261
- cetylpyridinium chloride mouthwash 1537
- chlorhexidine 1538
- chlorhexidine toothpaste 5815
- iodine-containing compounds, antibacterial agent 10504
- microbial dextranase/cariogenase 4058
- oral hygiene 747

Dental plaque(Contd),

- Penicillium dextranase* 4502
- Streptococcus mutans*, penicillin + sulchadiazine 603
- therapeutic agent 746

Dental unit water,

- microorganisms 5794

Dentifrice,

- Bacillus acidophilus* 2354
- Bacillus polymyxa polysaccharide* 2510
- fluoride, gingivitis 4903
- fluoride + monofluorophosphate, dental caries 3931

- fungi dextranase 10502

- monofluorophosphate, dental caries 3930

Denture,

- steriliser 1280

Denture cleaner,

- chlorhexidine 1538

Deodorant,

- 748
- antibacterial agent, thiourea derivatives 3973
- bacterial skin sampler 10534
- n-oxypridyl thiol aluminium derivatives 749

Deodorant soap,

- skin bacteria 5816

Deodorisation,

- animal waste, *Lactobacillus* 1487
- waste gases, compost 8221

Deosaminyllividomycin B,

- lividomycin B 10380

3-Deoxy-D-arabinoheptulosonate 7-phosphate

- synthase,

- Escherichia coli* 833 4082 4083 4084

3-Deoxy-D-arabinoheptulosonic acid-7-phosphate

- synthase,

- tyrosine-inhibitable, *Salmonella typhimurium* 3266

2-Deoxy-D-glucose,

- Japanese B encephalitis virus 6521

- Junin virus 7341

1-Deoxy-D-threo-pentulose,

- Streptomyces hygroscopicus*, *Mycobacterium avium* 5728 5729

7-Deoxy-daunorubicinol agyclone,

- Streptomyces*, daunorubicin 9460

3-Deoxyadenosine,

- western equine encephalitis virus 4683

2,3-Deoxybenzoyl serine,

- Klebsiella aerogenes* 882

Deoxycholate,

- Erwinia amylovora* 8064

Deoxynivalenol,

- Fusarium roseum*, animal feed 2620

Deoxynortryptoquivaline,

- Aspergillus clavatus* 7076

Deoxynortryptoquivalone,

- Aspergillus clavatus* 7076

Deoxyparomamine,

- 6-C-aminomethyl-, derivatives 9089

Deoxyribonuclease,

- ATP-dependent, *Eacillus subtilis* 4085
- Bacillus* 834 9380

Eacteroides

- 3249

Pseudomonas aeruginosa

- 1648

Staphylococcus, agar plate tests

- 2417

Staphylococcus aureus, food, assay

- 7725

Vibrio

- 1666

endo-Deoxyribonuclease,

- Bacillus subtilis* 6883

Deoxyribonuclease-indole medium,

- Enterobacteriaceae* 7541

Deoxyribonuclease test,

- Enterobacteriaceae* 4947

- Staphylococcus aureus* 4947

Deoxystreptamine,

- derivatives, antibacterial agent 10256

- 2-Deoxystreptamine-aminoglycoside, derivatives, antibacterial agent 6559 6560

Subject index

- Deoxyterphenyllin,**
 Aspergillus candidus 239
- alpha-6-Deoxytetracycline,**
 derivatives, antibacterial agent 10329
- Deoxythaldastine,**
 antibacterial agent/antifungal agent 2144
- Deoxytryptoguinoline,**
 Aspergillus clavatus 7076
- 6-Deoxyversicolorin A,**
 Aspergillus versicolor, high-speed liquid chromatography 6146
- Deproteinization,**
 yeast cell membrane 6823
- Depsipeptide,**
 Pithomyces chartarum 45
- Derivatives,**
 pyridine, bactericide/fungicide, plant protection 2823
- Derma pseudotsugae,**
 Douglas fir 6383
- Derma tetrasperma,**
 Douglas fir 6383
- Dermonecrotic toxin,**
 Bordetella pertussis 3447
- Dermosan,**
 Ascochyta rabiei, gram 2799
- Derosal,**
 Lophodermium pinastri, pine 1144
 resistance, *Colletotrichum coffeanum*, coffee 2921
- Derredoxin,**
 Desulfovibrio gigas 2443
- Derris elliptica,**
 tubaic acid, antibacterial agent 3682
- Desacetylphytoberin,**
 potato, *Phytophthora infestans*/*Fusarium avenaceum*/*Phoma exigua*, assay 3567
- Deschampsia caespitosa,**
 Helminthosporium catenarium 2699
- Desdanine,**
 coliphage plaque formation inhibitor 5730
 R factor transfer inhibitor 5730
- Desferritriacetylfulgigen,**
 Aspergillus deflectus, antibacterial agent 10365
- Desiccation,**
 Rhizobium, montmorillonite 6441
 Rhizobium, soil 10061 10062
- Desmethyldestruxin B,**
 Metarrhizium anisopliae 5896
- Desmycosin,**
 tylosin, *Streptomyces fradiae* 6662
- Desoxycholic acid,**
 Staphylococcus 7316
- Desiccation,**
 yeast, restoration 3739
- Destomycin,**
 2171
- Destomycin B,**
 structure 1413
- Destruxin B,**
 Metarrhizium anisopliae 5896
- Desulforedoxin,**
 Desulfovibrio gigas 8331
- Desulfovibrio,**
 hydrogen 3216
- Desulfovibrio baculatus,**
 sulphate reduction, manganese ore 5511
- Desulfovibrio desulfuricans,**
 3-bromoacetoxy tetrahydrofuran 533
 epsilon-caprolactam + alkanediamines 2318
 epsilon-caprolactam + N-alkylalkylene diamine reaction product 3126
 carbamyloxy-benzamide derivatives 4691
 copper precipitation 5510
 cytochrome c3 3243
 bis(diphenylaminomethane) derivatives 1265
 dithiocarbamate derivatives 6526
- Desulfovibrio desulfuricans(Contd),**
 ferredoxin 3243
 imidazole derivatives 2137
 mackinawite, jarosite, *Thiobacillus ferrooxidans*, soil 2085
 plastics denaturation 5195
 rubredoxin 3243
 slimicide, industrial water system 3124
 soil, ferric sulphate pyritization 6456
 superoxide dismutase 4397
 thiocyanate xanthate derivatives 2972
 trifluoromethyl
 phenyl-3-(3',5'-dicyanophenyl)urea 2140
- Desulfovibrio gigas,**
 derredoxin 2443
 desulforedoxin 8331
 rubredoxin 3244
- Desulfovibrio vulgaris,**
 + *Methanobacterium*, sewage, methane 9204
 bisulphite reductase II 1642
 flavodoxin 7623
 rubredoxin 3244
- Desulfuromonas acetoxidans,**
 cytochrome c-551.5 6945
- Desulphovibrio gigas,**
 iron-sulphur protein, molybdenum-containing 2442
- Detection apparatus,**
 759
- Detection device,**
 microbiological 773
- Detergent,**
 alkyl benzenesulphonate, *Azotobacter*, soil 6416
 alkyl benzenesulphonate, microbial degradation 4166
 alkylbenzene sulphonate, bacterial degradation 599
 alkylbenzene sulphonate, degradation, *Escherichia* 4167
 alkylsulphate, degradation, *Coccomonas terripena* alkylsulphohydrolase 6979
 alkylsulphate, degradation, *Pseudomonas* alkylsulphohydrolase 6979
 alpha-halogenated fatty acid, antibacterial agent/antifungal agent 1215
 antibacterial agent/antifungal agent, epsilon-caprolactam + alkanediamine derivatives 2149
 antibacterial agent/antifungal agent, pyridazine-2-oxide derivatives 3932
 antifungal agent, plant protection 386
 Azotobacter, soil 6416
 Bacillus firmus proteolytic enzymes 1671
 Bacillus protease 9430
 bacteriostat, benzanilide derivatives 1217
 bacteriostat, thiocarbonyl sulphonamide derivatives 9228
 beer fermentation tank 4901
 disinfectant/bactericide 2936
 dodecylbenzene sodium sulphonate, bacterial degradation, water 6723
 dodecylbenzene sodium sulphonate, water bacteria 6723
 food industry 4899
 germicide 3934
 microbial protease 5041
 milking machine sanitation 3924
 polyanionic, aminoglycoside antibiotics 8128
 polyanionic, colistin 7389
 polyanionic, gentamicin 7389
 polyanionic, kanamycin 7389
 polyanionic, polymyxin B 7319
 polyanionic, polymyxins 6121
 polyanionic, streptomycin 7389
 polyanionic, tobramycin 7389
 river water, microbial degradation 4175
 rosamicin monoesters, antibacterial agent 5760
 tobacco mosaic virus, tobacco/bean 5435

Subject index

- Detergent builder,**
carboxymethyloxysuccinate, degradation,
sewage sludge bacteria 5187
- Dettol,**
alcoholic, antiseptic 8252
enrichment/selective medium, *Pseudomonas*
aeruginosa 4961
- 2-Deutero-3-fluoro-D-alanine,**
antibacterial agent 6505
- 2-Deutero-3-fluoro-D-alanine,**
antibacterial agent 505
- Deuteromycetes,**
degradation, insoluble polymers 116
protein-vitamin concentrate, food/animal feed
3241
- Dewatering,**
activated sludge 3842 7491 9191
sewage sludge 684 5788 5791
sludge 7491 8214
waste treatment 1451
- Dexon,**
Phytophthora parasitica, radiate pine 4548
seed treatment, *Pythium ultimum*, cotton 9992
seed treatment, *Rhizoctonia solani*, cotton
8836 9992
Verticillium dahliae, brinjal 4489
- Dextran,**
Bacillus amyloliquefaciens alpha-amylase
conjugate 2452
degradation, microbial dextranase 6980
Leuconostoc mesenteroides, rye germ culture
medium 4953
Streptococcus mutans, dental plaque,
microbial dextranase 4058
Streptococcus mutans exudate 1683
- Dextranase,**
fungal, dentifrice 10502
Fusarium oxysporum, melon 1835
microbial, dental plaque 4058
microbial, dextran degradation 6980
Penicillium funiculosum, dental plaque 4902
Penicillium lilacinum, dental plaque 4902
Rhizoctonia bataticola, peanut 1835
Sclerotium oryzae, rice 1835
- Dextranucrase,**
Leuconostoc mesenteroides 837 2463
Streptococcus mutans 7620
Streptococcus sanguis 6884
- Dextrin,**
bacterial alpha-amylase, low D.E. starch
hydrolysate syrup 6931
malto-, low D.E., starch hydrolysis,
bacterial alpha-amylase 6932 6933
- beta-Dextrin,**
immobilised *Bacillus cyclodextrin*
glycosyltransferase 5939
- Dextrinase,**
Limit, *Aspergillus oryzae* 3268
- Dextrose,**
immobilised dextrose isomerase, *Streptomyces*
olivochromogenes 1649
Streptomyces xylose isomerase, levulose 7669
- Dextrose isomerase,**
immobilised, *Streptomyces olivochromogenes*,
dextrose, levulose 1649
Streptomyces, glucose, fructose 838
Streptomyces olivochromogenes 839
- DF-125,**
Penicillium digitatum/*Penicillium*
italicum/*Alternaria citri*, satsuma mandarin
post-harvest decay 5400
- Diabrotica balteata,**
bean yellow stiptole virus, bean 6180
- 3,5-Diacetoxycyclopent-1-ene,**
hydrolysis, *Aspergillus niger* lipase 889
hydrolysis, *Saccharomyces cerevisiae* 889
- Diacetoxyscirpenol,**
animal mycotoxins 3427
Fusarium oxysporum, safflower seeds 7839
Fusarium roseum, animal feed 2620
- Diacetoxyscirpenol (Contd),**
human cell culture, cytocide 5260
- Diacetyl,**
yeasts 3344
- Diacetyl reductase,**
Klebsiella pneumoniae 9282
- 2,4-Diacetylphloroglucinol,**
Pseudomonas fluorescens, antibacterial agent
7442
- Diallate,**
fungal diseases, cereal 261
- Diallyl-disulphide,**
antifungal agent, plant protection 388
- Dialyser,**
automated cleaning device 729 730
- Dialysis,**
foot-and-mouth disease virus 5868
sucrose, Japanese encephalitis virus 5869
- Dialysis fluid,**
bactericide, benzoic acid 3142
- Dialysis test,**
meat, antibiotic residues 1747
- Diamidine-2-phenylindole,**
Mycoplasma 1599
- Diamine,**
N-alkyl-propylene-, + epsilon-caprolactam,
reaction products, antibacterial
agent/antifungal agent 8102
N-alkylalkylene-, + epsilon-caprolactam
reaction product, antibacterial
agent/antifungal agent, industrial water
system 3126
phenylenedimethylene-, derivatives, antiviral
agent 10181
- 2,4-Diamino-2,4,6-trideoxy-D-glucose,**
Pseudomonas aeruginosa lipopolysaccharide
6934
- D-3,6-Diaminohexanoic acid**
2-(carboxymethyl)-2-methylhydrazine,
antibacterial agent/antifungal agent 2151
- Diaminomaleonitrile,**
microbial degradation 3365
- 2,6-Diaminopurine,**
derivatives, antifolate agent, *Streptococcus*
faecalis 501
- 2,4-Diaminoquinazoline,**
derivatives, *Candida albicans* 7335
- Dianthus,**
Phialophora cinerescens 9854
resistance, *Phialophora cinerescens* 9854
Zygonhiala jamaicensis 8598
- Dianthus barbatus,**
carnation necrotic fleck virus/carnation
yellow fleck virus 5367
carnation streak virus 1914
carnation vein mottle virus 1915
- Dianthus caryophyllus,**
carnation streak virus 1914
Fusarium oxysporum, benomyl 2022
Fusarium poae + mite 1916
resistance, *Phialophora cinerescens* 1986
Verticillium cinerescens, benomyl 2022
- Dianthus chinensis,**
carnation streak virus 1914
- Diaper,**
bacteriostat/fungistat 5817
- Diaphorina citri,**
citrus greening, mycoplasma-like organism,
sweet orange 5355
- Diaporthe,**
soybean 6196
- Diaporthe citri,**
Citrus, copper compound 2026
Citrus, thioureidobenzene phosphates 2014
grapefruit, fungicide 2722
isothiocyanate derivatives 3722
phosphoryl phenyldiamine derivatives 1118
- Diaporthe impuls,**
antibiotics 9026

Subject index

- Diaporthe phaseolorum,**
soybean 5769
- Diaporthe pustulata,**
antibiotics 5026
- Diaporthe sojae,**
soybean 5310
- Diaportha phaseolorum,**
aculeacins 8175
- Dairy industry,**
wastewater treatment 10447
- Dairy waste,**
antibacterial agent/antifungal agent,
cinnamyl phenols 532
- Diatom,**
extract, fungicide 7330
- Diatryene 2,**
nuclear magnetic resonance spectrum 1414
- Diffuxic growth,**
microorganisms 3544
- Diaveridine,**
antibacterial agent 10149
- Diaveridine-sulphadimethoxine,**
antibacterial agent 10149
- Diaveridine-sulphaquinoxaline,**
antibacterial agent 10149
- Diazine,**
derivatives, antibacterial agent/antifungal
agent, plant protection 7223
- Diazinon,**
Fusarium graminearum, zearalenone 2436
- Dibekacin,**
5501 10258
resistance, *Pseudomonas aeruginosa*, + heavy
metals resistance 7294
- Dibenzothiophene,**
degradation, *Pseudomonas aeruginosa* 4173
- Dibromochloropropane,**
partial soil sterilant, *Plasmodiophora*
brassicarum, crucifer 5424
- Dibromoisocyanuric acid,**
hand disinfection 1518
- Dibromol,**
skin disinfectant, antimicrobial agent 10494
- N-Dibutyl-9(10)dibutylphosphooctadecanamide**
antimicrobial agent 2906
- Dicarboxylic acid,**
Torulopsis bombicola, alkane 7292
- Dicellomyces bombacis,**
Bombyx ceiba 1910
- Dichlofluanid,**
Botrytis cinerea, strawberry 7976
Bremia lactucae, lettuce 4391
- Dichlone,**
Melampsora larici-populina, poplar 2047
Phytophthora parasitica, tobacco 9972
- 3-Dichloroacetone oxime acetate,**
+ beta-bromo-beta-nitrostyrene, slimicide,
industrial water system 2320
- 2-Dichloro-3,3-dimethylcyclopropane**
carboxylic acid,
Pycularia oryzae, rice, phytoalexin 8785
- 5-Dichloro-3-aminobenzoic acid,**
soil, *Chaetomium* 2898
- 6-Dichloro-4-nitroaniline,**
peach wine fermentation, *Saccharomyces*
cerevisiae 7700
Sclerotium rolfsii, peanut 9960
- 3-Dichloroacetone oxime acetate,**
+ alpha-bromo-p-methylacetophenone,
slimicide, industrial water system 10470
- 4-Dichlorobutene-1 + hexamethylenetetramine,**
antibacterial agent 1213
- Dichlorocyanurate silver,**
complexes, antibacterial agent 10147
- Dichlorofluanide,**
Lophodermium pinastri, pine 1151
- Dichloroisocyanurate dihydrate,**
sodium, tablet 2332
- Dichloromaleic imide,**
derivatives, fungicide, plant protection
5982
- Dichloromethane,**
+ fungicide, seed dressing, soybean 2031
- Dichlorophene,**
snow mould fungi, turfgrass 4485
- 2,4-Dichlorophenoxyacetic acid,**
Ceratocystis ulmi, elm 2044
cucumber mosaic virus, chilli 8834
microbial degradation, river water 7707
milk/milk product microbiology 1725
- Dichlorophenyl,**
derivatives, antifungal agent, plant
protection 5428
- N-(3,5-Dichlorophenyl)-1,2-dimethylcyclopropane**
dicarboximide,
phytopathogenic bacteria/fungi, plant
protection 7222
- Dichloropropane + dichloropropene,**
partial soil sterilant, *Plasmodiophora*
brassicarum, crucifer 5424
- Dichloropropene,**
partial soil sterilant, *Plasmodiophora*
brassicarum, crucifer 5424
- 1,3-Dichloropropene,**
degradation, soil microorganisms,
Phytophthora parasitica 10078
- Dichloropropene-dichloropropane,**
tobacco rattle virus, cladocid 4480
- 3,5-Dichlorophenol,**
bacterial toxicity, activated sludge 7481
- Dichlorvos,**
aflatoxin, *Aspergillus parasiticus* 6131
Fusarium graminearum, zearalenone 2636
- Dichomitus squalens,**
trees 9994
- Dichondra repens,**
Sclerotium rolfsii 1062
- Dichotomophthoropsis nymphaeaeum,**
water lily 4369
water shield 4365
- Dicloran,**
resistance, *Botrytis cinerea*, plant
protection 4626
Sclerotium cepivorum, onion 7974
seed treatment, *Sclerotium cepivorum*, onion
7991
- Dicloxacillin,**
+ ampicillin, antibacterial agent 8149
+ cephaloridine, antibacterial agent 7374
+ penicillins, antibacterial agent 3030
anaerobic bacteria 3010
antibacterial agent 3029
Bacillus cereus beta-lactamase 9410
Bacillus megaterium 2220
Clostridium perfringens 7371
milk, penicillinase 4192
Propionibacterium acnes 5630
quality control, membrane filtration 10287
tolerance, *Bacillus subtilis* 2148
tolerance, *Streptococcus pneumoniae* 2168
- Dicrysticin,**
curd rot, cauliflower 402
- Dictyostelium,**
bottle gourd seed, seed treatment fungicide
5682
- Dictyostelium discoideum,**
amphotericin B 8169
citrate synthase 9376
culture medium 9304 10642
discoenzyme 3333
glucose-6-phosphate dependent glycogen
synthase 6897
glutamate dehydrogenase 5070
plasma membrane, purification, equilibrium
sucrose density centrifugation 5018
- Didehydroglucine,**
glucine transformation, *Fusarium solani*
6954

Subject index

- Didelphis marsupialis virginiana**,
Mycobacterium avium complex-serotype 6, blood
agar medium 3980
- 3,4-Dideoxycanamycin B**,
Pseudomonas aeruginosa phagocytosis, rabbit
polymorphonuclear leukocytes 2998
- 2,6-Dideoxystreptamine**,
Streptomyces fradiae, 6-deoxyneomycins 5681
Streptomyces rimosus, 6-deoxyparomomycins
5681
- Didymella applanata**,
loganberry, post-harvest decay 6321
raspberry 4291
raspberry, ferbam 4507
- Didymocladium tetratum**,
terramin 9156
- Dieback**,
Armillaria mellea, Eucalyptus 6397
Colletotrichum capsici, chilli, plant
protection 7145
Colletotrichum gloeosporioides, cassava 7908
Colletotrichum gloeosporioides, kapok tree
6274
Cytospora leucostoma, apricot 9818
Cytospora leucostoma, peach 9818
Diplodia pinea, radiata 8848
Diplodia pinea, radiata pine 412
Eutypa armeniacae, apricot 3493 7866
Glomerella cingulata, chilli 2733
Norway spruce 3853
Phytophthora cinnamomi, Eucalyptus 8855
Pseudomonas mors-prunorum, peach 6247
Pseudomonas syringae, coffee 5371
Verticillium dahliae, eastern white pine 10004
- Dieffenbachia**,
Erwinia chrysanthemi, pectate lyase 3301
- Dieffenbachia picta**,
extracts, antibacterial agent 10141
- Dieldrin**,
seed dressing, Helminthosporium sativum,
wheat 2032
- exo-Dieldrin**,
aldrin degradation, soil bacteria 10074
- 1,2,7,8-Diepoxyoctane**,
Pseudomonas oleovorans, 1,7-octadiene
epoxidation 9482
- Diethylene glycol**,
diesters, antibacterial agent/antifungal
agent 5720
- Diethylpyrocarbonate**,
Byssoschlamys nivea 4252
Byssoschlamys nivea spores, food 3423
- Diffraction**,
X-ray fibre, bacterial curdlan 7672
- Diffusion**,
agar, paper disc, mycoheptin assay 6643
double, antigen + antibody 2368 2369
immuno-, Escherichia coli K antigen 5842
immuno-, Escherichia coli O antigen 5842
microslide gel double, Staphylococcus aureus
enterotoxin A/enterotoxin E 3452
- Diffusion coefficient**,
oxygen, microbial aggregate 9248
- 1-Difluoramino-adamantane**,
herpes virus 2147
- Difolatan**,
Alternaria cepulicola, onion 4492
Cercospora oryzae, rice 4486
Entyloma oryzae, rice 4486
Fusarium oxysporum 4484
Helminthosporium oryzae, rice 4486
Penicillium expansum, apple post-harvest
decay 8749
Phytophthora nicotianae, tomato 4494
Pyricularia oryzae, rice 4486
Rhizoctonia oryzae, rice 4486
Rhizoctonia oryzae, rice, fungicide 4486
- Digester**,
anaerobic, sludge treatment 3846
- Digestibility**,
dry matter, cellulose, ruminant feed 6095
- Digitalis**,
Colletotrichum fuscum, lanatoside
A/Lanatoside C 869 270
Phyllosticta digitalis, lanatoside
A/Lanatoside C 870
Septoria digitalis, lanatoside A/lanatoside C
870
- Digitalis ferruginea**,
broad bean wilt virus 7104
- Digitalis laevigata**,
belladonna mottle virus 5363
- Digitalis lutea**,
belladonna mottle virus 5363
- Digitalis purpurea**,
extracts, antibacterial agent 10141
- Digitaria**,
resistance, Pyricularia grisea 4448
- Digitaria ciliaris**,
cereal chlorotic mottle virus 7117
- Digitaria decumbens**,
+ bacteria, nitrogen fixation 8895
pangola stunt virus, electron microscopy
9795
Pyricularia grisea 3483
- Digitaria stricta**,
Cercospora digitariae 1927
- Digitoxin**,
lanatoside A, Colletotrichum fuscum 869 870
lanatoside A, Phyllosticta digitalis 870
lanatoside A, Septoria digitalis 870
- Diglyceride acyltransferase**,
Mycobacterium smegmatis 6885
- Digoxin**,
lanatoside C, Colletotrichum fuscum 869 870
lanatoside C, Phyllosticta digitalis 870
lanatoside C, Septoria digitalis 870
- 1,17-Diguanidino-9-azahexadecane acetate**,
Penicillium digitatum/Penicillium
italicum/Alternaria citri, satsuma mandarin
post-harvest decay 5400
- 2,3-Dihydro-1H-imidazo[1,2-b]pyrazole**,
herpes simplex virus 3716
- 9-Dihydro-5-O-mycaminosyl narbonolide**,
Streptomyces platensis, antibacterial agent
7438
- Dihydrocanadensolide**,
Penicillium canadense 84
- Dihydrodaunomycinone**,
daunomycinone transformation, Streptomyces
aureofaciens 7428
- Dihydrodipicolinate reductase**,
Bacillus cereus 9383
Bacillus megaterium 9383
- Dihydrofolate reductase**,
Escherichia coli 5060
Escherichia coli, high-voltage
electrophoresis 6886
Escherichia coli,
sulphamethoxazole-trimethoprim 4659
Lactobacillus casei 24
- Dihydrofolate synthetase**,
Serratia indica 5941
- Dihydrogen potassium phosphate**,
buffer, bacteriology 6756
- Dihydrogranatin**,
Streptomyces thermoviolaceus 7432
- Dihydroindolo-benzazepin-2-yl[methyl]phthalimide**,
antibacterial agent 3686
- Dihydrolipoamide dehydrogenase**,
Escherichia coli, molecular weight 7658
- Dihydrolipoamide transacetylase**,
Escherichia coli, molecular weight 7658
- 15-Dihydrolubimin**,
lubimin, fungi, potato 7967
- Dihydroorotase**,
Clostridium oiticim 1650
- 10,11-Dihydropicromycin**,
Streptomyces venezuelae, antibacterial agent
4798

Subject index

- Dihydrorugulovasine A**,
Penicillium concavo-rugulosum 5125
- Dihydrospectinomycin**,
 2171
- Dihydrosterigmatocystin**,
 carbon-13 nuclear magnetic resonance
 spectroscopy 7054
- Dihydrostreptomycin**,
 see Streptomycin, dihydro-
- 3-deoxy-**, antibacterial agent 6594
Escherichia coli ribosome 1320
Escherichia coli, salt antagonism 4742
 mastitis-causing microorganisms 2167
 milk, assay, *Sarcina lutea*/*Bacillus subtilis*
 5206
 milk, thin-layer chromatography 1722
Pseudomonas aeruginosa, salt antagonism 4742
- 4,5-Dihydrotetrazolol(1,5-a)-quinoxaline**,
 derivatives, antibacterial agent/antifungal
 agent, plant protection 9989
- Dihydroviomycin**,
 carbon-13 nuclear magnetic resonance
 spectroscopy 8200
- (+)-cis-1,2-Dihydroxy-1,2-dihydronaphthalene-2-**
carboxylic acid,
Pseudomonas testosteroni 3228
- 1,4-Dihydroxy-2-methoxy-6-methylbenzene**,
Penicillium baarneuse 886
- Dihydroxyacetone**,
Gluconobacter melanogenus 6005
- Dihydroxyacetone reductase**,
Mucor javanicus 9384 9385
- Dihydroxyanthraquinone**,
 derivatives, antiviral agent 7342
- Dihydroxydinaphthylmethane**,
 fungicide, plant protection 4509
- 3,4-Dihydroxyhomotyrosine**,
 echinocandin B 3805
- 3beta,7beta-Dihydroxykaurenolide**,
 hydroxylation, *Rhizopus arrhizus* 2509
- 16beta-18-Dihydroxylation**,
 oxygenated Salpha-androstanes, *Leptosporus*
fiissilis 3325
- cis-4,6-Dihydroxymellein**,
Cercospora 7826
- Dihydroxynaphthalene**,
 polymerization, *Rhizoctonia praticola* phenol
 oxidase 3305
- 2,3-Dihydroxynaphthalene**,
 marine bacteria 479
- 4,9-Dihydroxyperylene-3,10-quinone**,
Bulgaria inquinans 5130
- 2,5-Diketo-D-gluconic acid**,
Acetobacter melanogenus 6828
- Pill**,
Erysiphe umbelliferarum 1911
- Dilution system**,
 semi-automated, microbial count 3156
- Dimedone**,
 cyclic derivatives, antifungal
 agent/antibacterial agent 1266
 cyclic dimedone derivatives 1266
- Dimerization**,
 amoxycillin 9080 9081
 ampicillin 9080
 cyclacillin 9080
 epicillin 9080
- Dimethoate**,
Diaphorina citri, citrus greening,
 mycoplasma-like organism, sweet orange 5355
- Dimethylphenol**,
 polymerization, *Rhizoctonia praticola* phenol
 oxidase 3305
- Dimethyldithiocarbamate**,
Stemphylium botryosum, lettuce post-harvest
 decay 4438
- 3,7-Dimethyl-3,6-epoxyoctanoic acid**,
 (-)-menthone degradation, *Pseudomonas putida*
 7708
- 2,6-Dimethyl-4-tridecylmorpholine**,
Melampsora lini, flax 8801
- 3,7-Dimethyl-6-hydroxyoctanoic acid**,
 (-)-menthone degradation, *Pseudomonas putida*
 7708
- 3,7-Dimethyl-6-oxooctanoic acid**,
 (-)-menthone degradation, *Pseudomonas putida*
 7708
- 3,5-Dimethyl-4-chlorophenol**,
 germicide 3934
- 5,5-Dimethyl-delta2-thiazoline-4-carboxylic**
acid,
 penicillin G, *Bacillus stearothermophilus*
 D-alanine carboxypeptidase 4141
- Dimethyl dicarbonate**,
 food sterilisation/preservation 9663
- 2,5-Dimethyl furan-3-carbonic acid anilide**,
 seed dressing fungicide, plant protection
 1109
- Dimethyl phthalate**,
 degradation, *Pseudomonas aeruginosa* 6981
- Dimethyl selenide**,
 microorganisms 4145
 soil 8870
 soil microorganisms 4145
- Dimethyl sulphide**,
 beer 9508
- Dimethylallylpyrophosphate:L-tryptophan**
 dimethylallyl transferase,
Claviceps 3269
- Dimethylaminoethyl-alpha-phenyl-cinnamate**,
 antibacterial agent 6502
- 6,8-O-Dimethylaverufin**,
Aspergillus versicolor, high-speed liquid
 chromatography 6146
- 5,6-Dimethylbenzimidazolyl cobamide coenzyme**,
Klebsiella, methanol 2917
- Dimethylchlorotetracycline**,
 mycoplasma-like organism, witches' broom,
Mirabilis jalapa 5379
- 2,6-Dimethylnaphthalene**,
 marine bacteria 479
- Dimethylnidurufin**,
 mass spectrometry 5259
- Dimethylol dimethylhydantoin**,
 antibacterial agent/antifungal
 agent/antiseptic 3303
- Dimethylselenide**,
Fusarium, soil 4144
Penicillium, sewage 4144
 soil microorganisms 4559
- Dimethylsterigmatocystin**,
Aspergillus versicolor, high-speed liquid
 chromatography 6146
- 6,8-O-Dimethylversicolorin A**,
Aspergillus versicolor, high-speed liquid
 chromatography 6146
- 6,8-O-Dimethylversicolorin B**,
Aspergillus versicolor, high-speed liquid
 chromatography 6146
- Dimetridazole**,
Campylobacter coli 7324
Campylobacter fetus 7324
- Dinactin**,
 ion complexation, Raman spectroscopy 6617
- Dinebra retroflexa**,
 cereal chlorotic mottle virus 7117
- Dinitramine**,
Aphanomyces euteiches, pea 6353 7968
- Dinitro-bithiophene**,
 derivatives, antifungal agent/bactericide
 8098
- 2,6-Dinitro-N-(3-pentyl)-alpha,alpha,alpha-trif**
luoro-p-toluidine,
 degradation, soil microorganisms 10080
- Dinitro-thiophenamine**,
 derivatives, bactericide 2942
- Dinitroaniline**,
 derivatives, degradation, soil microorganisms
 10080

Subject index

- Dinitrodiphenylamine,**
derivatives, fungicide, plant protection 392
- 2,4-Dinitrophenol,**
Botrytis cinerea 4669
- Dinitrothiophene,**
derivatives, bactericide/fungicide, plant protection 7987
- Dinoseb,**
Sclerotium rolfsii, peanut 9957
- Dioctyl sodium sulphosuccinate,**
+ clotrimazole, *Candida albicans* 10174
- Diol,**
aliphatic, antibacterial agent/antifungal agent, cosmetic preservative 4699
aliphatic, diesters, antibacterial agent/antifungal agent 3720
antibacterial agent 10145
esters, antibacterial agent 10145
- Dioscorea,**
fungal post-harvest decay, fungicide 7942
virus-like particles 3539
- Dioscorea alata,**
Alternaria tenuis 2763
post-harvest decay 6327
virus disease 339
virus-like particles 3539
- Dioscorea cayenensis,**
post-harvest decay 6327
virus disease 339
virus-like particles 3579
yam mosaic virus 8746
- Dioscorea esculenta,**
virus disease 339
- Dioscorea rotundata,**
post-harvest decay 6327
virus disease 339
- Dioscorea trifida,**
Cucumber mosaic virus 6316
virus disease 339
- Diospyros tomentosa,**
Trichothecium roseum post-harvest decay 8752
- 1,3-Dioxane-4,6-dione,**
derivatives, antibacterial agent/antifungal agent 9007
- bis-(1,1-Dioxo-perhydro-1,2,4-thiadiazinyl-4)-methane,**
antibacterial agent 4667
- 2,3-Dioxybenzoic acid,**
Klebsiella aerogenes 882
- Dip-slide,**
antibacterial sensitivity/antibiotic sensitivity testing, urine bacteria 2931
plastic, autoclavable 6751
- Dip-strip,**
bacteriuria 4932
- Dipel,**
Indian meal moth 2541
- Diphenhydramine hydrochloride,**
antibacterial agent 5549
- Diphenylamine,**
derivatives, fungicide, plant protection 392
- bis(Diphenylaminomethane),**
derivatives, bactericide/fungicide 1265
derivatives, bactericide/fungicide, plant protection 1265
- Diphenylmethane,**
degradation, *Pseudomonas putida* 4172
Pseudomonas 6466
- Diphenylpyrazolium,**
derivatives, fungicide, plant protection 1114
- Diphtheria toxin,**
1813 1815 1816 4017 6772 7087 8584 8585
corynephage beta 7086
fragment B 5286
fragment B, structure 7856
mammalian cells 5287 5288
molecular weight 7842
toxoid 7847
- Diphtheria toxoid,**
9162
- Diplanthera,**
rhizosphere, nitrogen fixation 3644
- Diplocarpon maculatum,**
Entomosporium mespili, *Raphiolepis* 6294
- Diplocarpon rosae,**
rose 1050
rose, fungicide 2806
- Diplocadium elegans,**
antibiotic, antifungal agent/antibacterial agent 2237
- Diplococcus,**
Actinomyces recifensis lytic enzyme 2480
flocculation, bentonite 10535
rosamicin monoesters 5760
tibeazonium 9008
- Diplococcus pneumoniae,**
3-formylrifamycin SV dimeric hydrazones 6603
antibiotic 19 402 R.P. 3798
antibiotic 41, C12 10334
antibiotic 342-14-T 4787
antibiotic A-4696 624
antibiotic U-43120 1402
antibiotics 3000 4721
cephalosporin derivatives 1335 3769 7394 8140
cephalosporin R-sulphoxides 4736 5637
cephalosporins 2195 3016
cepham derivatives 2200
chelocardin anilino derivatives 3064 5726
copper, intensive care unit 2347
endo-alpha-N-acetylgalactosaminidase 1633
cyclic-erythromycin A 6,9-hemiacetal carbonate L-aspartate 5688
gardimycin 1419
imidazolyl-alkyl-hydrogen monothiosulphate derivatives 1221
Lipiarimycin 8186
nitroimidazole derivatives 1270
nitroimidazole-pyrimidine derivatives 4661
oxaricetin 3073
penicillin derivatives 1352 1353
penicillin *Escherichia coli* 1350
penicillin R-sulphoxides 4736 5637
penicillins 1347
preservation 4703
tetracycline resistance 4631 4647
- Diplococcus pneumoniae vaccine,**
6663
- Diplodia gossypina,**
cellulose waste degradation, animal feed 9610
cotton 8688 8689
cotton, resistance 8688
- Diplodia macrospora,**
corn 4330
- Diplodia maydis,**
corn 4330 5323 6214 8635
maize 1019
- Diplodia natalensis,**
avocado post-harvest decay 9909
mango post-harvest decay 9917
post-harvest decay/vegetable post-harvest decay, hypobaric pressure 7183
- Diplodia natalensis,**
orange post-harvest decay, fungicide 6318
- Diplodia natalensis,**
pyridine derivatives 2823
- Diplodia pinea,**
Austrian pine 6389 9998
Austrian pine, Bordeaux mixture 8001
ponderosa pine 8001
radiat 8848
radiate pine 412
Scots pine 6389 8001
- Diplodia zeae,**
corn 7882
corn, resistance 6406

Subject index

- Dipslide,**
bacteria, industrial fluids 5832
- Dipteracanthus prostratus,**
Oidium 2665
- Dipyrimadole,**
antiviral agent 10182
Chlamydia 10182
- Diquat,**
degradation, soil *Aspergillus niger* 4602
degradation, soil *Mucor hiemalis* 4602
degradation, soil *Penicillium frequentans* 4602
degradation, soil *Zygorhynchus heterogamus* 4602
- Disaccharide,**
7-O-(2-amino-2-deoxy-alpha-D-glucopyranosyl)-
L-glycero-D-manno-heptose, Eordetella
pertussis enotoxin 7849
- Disc,**
phonograph, antifungal agent/antimicrobial agent 472
- Discadenine,**
Dictyostelium discoideum 3333
- Disinfectant,**
1254 1522 2936 6725
abattoir, Kezoosol-II 4897
actinomycin antibiotic 70591 1389
antibacterial agent 6727
antibacterial agent/antifungal agent 6726
antibacterial agent/antifungal agent,
alkylphenols 531
antibacterial agent/antifungal agent,
epsilon-caprolactam + alkanediamine
derivatives 2149
antibacterial agent/antifungal agent,
n-oxypyridyl thiol aluminium derivatives 749
antibacterial agent/antifungal agent,
tetrahydro-cyclopropa(b)naphthalenes 4692
antibacterial agent, dihalopyrrolyl
di-/trihalomethyl ketones 2943
antibacterial agent, halogenated
phenoxyphenol + phenoxy alcohol/phenalkyl
alcohol 10156
antibacterial agent, hospital 7510
antibacterial agent,
piperazinoethyl-dihydroindolo-benzazepine
derivatives 2948
antibiotic G-52 1397
antibiotic G-418 1400
antibiotic U-48266, food equipment 4789
antibiotic U-48266, medical equipment 4789
antibiotic X-372A 1403
antimicrobial agent 3904
bactericide 8245
bactericide/fungicide, triorganotin
compounds/triorganolead compounds 2129
bacteriostat/bactericide/fungistat 1256
beer fermentation tank 4901
benzoic acid, dialysis fluid 3142
beverage industry 1529
cephalosporin derivatives 1313 1314 1315
1316 1338 2209 2214 3006 3007 8124
cephalosporin R-sulphoxides 4736
cephalosporins 2174 2201 2203
chlorine, antimicrobial agent 5804
contact lens 2355
dairy industry 6743
D-3,6-diaminohexanoic acid
2-(carboxymethyl)-2-methylhydrazine 2151
ethanol 3138
formol 496
Gigasept, viricide, Coxsackie virus 6729
Gigasept, viricide, hepatitis virus E 6728
glutaraldehyde 3907 3908
glutaraldehyde, medical equipment 9014
glutaraldehyde, mycobactericide 3678
hospital 7511 7512
hospital carpet 8248
hydrogen peroxide 1516
- Disinfectant (Contd),**
iodine, antibacterial agent/antifungal agent 8253
iodophor teat dip, iodine, milk 8476
iodophor udder wash/teat dip, iodine, milk 8475
laundry washing machine sanitation 4892
mercapto-quinoxaline derivatives 504
microbial assay 10485
Mycobacterium 7509
Mycoplasma pneumoniae 10487
organic soil neutralization test, *Pseudomonas*
aeruginosa/*Staphylococcus aureus* 5801
penicillin derivatives 1313 1314 1315 1316
1353 3006 3007 8124
penicillin R-sulphoxides 4736
penicillins 2174
peracetic acid, *Mycobacterium tuberculosis* 3679
peracetic acid, tonometer 3917
Providencia stuartii 4654
pyrrole-2-carboxamide derivatives 3139
quaternary ammonium compounds 5802
quinolizine-2-carboxylic acid derivatives,
medical equipment 4694
resistance, *Aerobacter cloacae* 1192
resistance, *Escherichia coli* 1192
resistance, *Klebsiella pneumoniae* 1192
resistance, *Pseudomonas aeruginosa* 1192
resistance, *Staphylococcus aureus* 1192
skin, antimicrobial agent 10494
skin microorganisms 10646
soft contact lens soaking solution,
Pseudomonas aeruginosa/*Pseudomonas cepacia* 4912
teat dip, antibacterial agent 5808
thienamycin 651
N-trimethylbenzyl ethylenediamine 3506
vaccinia virus 6736
variola virus 1242
Vega, bactericide/fungicide 9232
viricide 4673
virucide 1241
wastewater, ATP assay 5781
- Disinfectant testing,**
725 1507
- Disinfection,**
2428
abattoir 7522 9238
air, operating theatre 1504
animal drinking water trough, bacteria 8254
animal houses 9234
beipan 2545
beverage industry 1529
bronchofiberscope, hexachlorophene +
povidone-iodine + ethanol 5807
chlorination, drinking water 2323
chlorination, sewage, phage MS-2 + bentonite 6519
chlorination, sewage, phytoplankton 9226
chlorination, water 10477
chlorination, water, indicator microorganisms 1499
chlorination, water, phage MS-2 + bentonite 6519
chlorination, water, viruses 1530
chlorinator, swimming pool water 8241
chlorine, drinking water 6717
chlorine, sewage 6655
chlorine, water 6718
cosmetic hygiene 3935
cystoscope, low-temperature
steam/formaldehyde autoclave 4695
drinking water 10480
drinking water, chlorine + halogen salt 7500
dye-sensitized photooxidation,
water/wastewater, coliform 9221
effluent,
chlorination-dechlorination-postaeration
system 3113

Subject index

Disinfection(Contd),

egg shell surface, hot water treatment 5672
 electrolysis, drinking water 7499
 electron beam, sewage sludge 9197
 endoscope, pHisoHex/hexachlorophene 6251
 ethylene oxide, honeycomb, *Escherichia coli* larvae 6537
 food industry 3147 4899 7526
 formaldehyde, cattle house 10434
 formaldehyde, filtered air under positive pressure-poultry house 7520
 glutaraldehyde 3907 3908
 hand 6735 10495
 hand, dibromoisocyanuric acid 1518
 hand, iodophor, hospital intensive care unit, *Pseudomonas* 9233
 hospital 7514 7515 8249
 hospital air, peracetic acid aerosol 7912
 hospital hygiene 3910 3911
 hospital intensive care unit 3916
 hospital sewage 695
 hydrogen peroxide, culture medium 8104
 hygiene 10486
 hypochlorite, hospital water bed, *Pseudomonas aeruginosa* 10493
 latex paint film, fungi 10092
 meat industry 3927 7527 7528
 milk bottle 2352
 milk industry 8256
 milking 2350
 ozonation, drinking water 2324
 ozonation, water 2329
 ozone, effluent 9198
 ozone, coliovirus, sewage 697
 ozone, water 5792
 peracetic acid, sewage effluent 5783
 pig drinking trough 3145
 poultry house, Marek's disease virus 10433
 room 1508 3909
 seafood, iodine + polyvinylpyrrolidone 967
 sewage, ultraviolet radiation 1466
 small laboratory animals unit 3144
 soft contact lens 4701
 steam + formaldehyde, urinary endoscope 9013
 surface, sugarbeet, iodophors 744
 surgical hand, Remanex 3920
 swimming pool water 3143 10480
 swimming pool water, chlorine + halogen salt 7500
 teat dip 10496
 ultrasound/ozonation, water 2330
 ultraviolet irradiation, air 9229
 ultraviolet irradiation, fish hatchery water 1503
 ultraviolet radiation, respirator nebulizer water 3518
 veterinary hygiene 8257
 wastewater, ATP assay 5781
 wastewater, chlorine + halogen salt 7500
 wastewater, quaternary ammonium compound 8239
 wastewater, soil irrigation 3874
 water 8237 10472 10480
 water, benzotriazine-1,4-dioxide derivatives 2091
 water, quaternary ammonium compound 8239
 water, ultraviolet irradiation + sand filtration 8238

Disinfection cabinet,

automatic, formaldehyde + ammonia,
 anaesthesia equipment/respiratory equipment 4896

Disintegration,

ballistic, microorganisms 9257 10531
 biological material 9256
 cell, decompression 8822
 freeze-pressing, microorganisms 1597
 freeze-pressing, *Saccharomyces cerevisiae* 1596 1597
 microorganisms 2365 9256

Disintegration(Contd),

Penicillium vitale enzymes 824
 ultrasonic cavitation, microorganisms 8268
 yeasts 10618
 Disodium 4-dodecylated oxydibenzene-sulphonate, aminoglycoside antibiotics 8128
 polymyxins 8128
 Disodium edetate,
 soft contact lens preservative 4700
 soft contact lens soaking solution,
Pseudomonas aeruginosa/*Pseudomonas cepacia* 4912
 Dispenser,
 autoclavable, disposable pipette tips 7351
 Dispersed collector,
 flocculation clarification, water/yeast/wine 1550
 Disruption,
Aspergillus niger giant cells, organelles 5017
 influenza virus/Newcastle disease virus/rabies virus, vaccine 2276
 zeolite, *Neisseria gonorrhoeae*, antigen 5136
 Dissolved oxygen tension,
Escherichia coli enterotoxin 4274
Staphylococcus aureus enterotoxin 4274
 Distamycin A,
 antiviral agent 1322
 DNA 7424
 herpes simplex virus 3068
 Distemper,
 fungicide 2053
 Distemper virus vaccine,
 2287
 Distillation extraction apparatus,
 continuous, triclocarban/triclosan assay 3681
 Distillery,
 rum, slops, fungi 7701
 Distillery slops,
 food yeast 6032
 Distillery waste,
 rum stillage, anaerobic digestion 10446
 Dithane C-90,
Xanthomonas malvacearum, cotton 3595
 Dithane M-22,
Geotrichum candidum, orange post-harvest decay 2771
 Dithane M-45,
Alternaria solani, potato 5418
Alternaria trititica, wheat 1102
Ascochyta rabiei, gram 2799
Cercospora blight, oil palm 9968
Cercospora oryzae, rice 4486
Colletotrichum lagenarium, bottlegourd 6357
Colletotrichum lagenarium, watermelon 6357
Colletotrichum piperatum, chilli 4490
Curvularia lunata, cluster bean 2002
Entyloma oryzae, rice 4486
Erysiphe polygoni, pea 8812
Fusarium oxysporum 4484
Fusarium oxysporum, chilli 4490
Fusarium oxysporum, ginger 2007
Fusarium oxysporum, lemon post-harvest decay 9916
Helminthosporium oryzae, rice 4486
Lophodermium pinastri, pine 1146 1154
Operculella padwickii 1100
Phytophthora nicotianae, passionfruit 8712
Phytophthora palmivora, papaya 8666
Pyricularia oryzae, rice 4486
Rhizoctonia oryzae, rice 4486
Rhizoctonia solani, cauliflower 1103
 seed treatment, *Rhizoctonia solani*, okra 9992
 seed treatment, safflower seed mycoflora 8818
 seed treatment, *Sclerotium rolfsii*, lentil 4523
 walnut, fungicide 5465

Subject index

- 0ithane S-31,**
Alternaria trititina, wheat 1102
- 0ithane Z-78,**
Alternaria trititina, wheat 1102
Alternaria, wheat 2005
Ascochyta rabiei, gram 2799
Fusarium oxysporum, ginger 2007
Fusarium oxysporum, lemon post-harvest decay 9916
Geotrichum candidum, orange post-harvest decay 2771
Macrophomina phaseolina, papaya 2802
Operculella padwickii 1100
Phytophthora nicotianae, tomato 4494
Rhizobium/Rhizobium + mung bean 3649
seed treatment, *Colletotrichum lindemuthianum*, Lablab 2824
Thielavia terricola, sesame 3E1
- 0ithiocarbamate,**
derivatives, bactericide/fungicide 6526
derivatives, bactericide/fungicide, petroleum 6526
derivatives, bactericide/fungicide, plant protection 6526
derivatives, bactericide/fungicide, preservative 6526
derivatives, fungicide 5570
derivatives, slimicide, industrial water system 6526
Helminthosporium oryzae, rice 7972
quaternary ammonium, antifungal agent/antibacterial agent, oral hygiene 1575
- 0ithiocarbamate formamidine,**
derivatives, fungicide, plant protection 2013
- 0ithiocarbamate transition metal complex,**
antifungal agent 3700
- 0ithiocarbamic acid,**
derivatives, *Plasmodiophora brassicae*, cabbage 2803 2804
- 1,2-Dithiol-3-thione,**
derivatives, fungicide 8C77
- 0ithiophosphate,**
derivatives, fungicide, plant protection 281G
- 0ithiophosphate ester,**
derivatives, fungicide, plant protection 2808 2809
- 0itylenchus dipsaci,**
tobacco necrosis virus, bean 7110
- 0iuretic,**
microbial 9500
- 0iuron,**
Aspergillus terreus, soil 7280
degradation, soil microorganisms 5503
soil microorganisms 7279
Trichoderma viride, soil 7280
- DNA,**
5C11
+ adriamycin, antitumour antibiotic 2525
activated sludge 3867
activated sludge, waste treatment 9181
adriamycin 9122
adriamycin derivatives 9121
avian myeloblastosis virus, litmomycin 8187
Bacillus subtilis, tetracycline 5698
bacterial 3335
carzinophilin 9458
daunorubicin derivatives 9121
distamycin A 7424
echinomycin 635
Escherichia coli,
Freon-12/Freon-13/Genetron-23/methane/nitrous oxide 1C139
Escherichia coli plasmids 3336
Escherichia coli, polyacrylamide gel electrophoresis 6938
Escherichia coli, tetracycline 5698
folded, *Bacillus subtilis* 5990
- DNA(Contd),**
herpes simplex virus, sodium iodide density gradient centrifugation 2522
high molecular weight closed circular, bacteria 6937
Marek's disease virus, polyacrylamide gel electrophoresis 9452
microbial 3217
mithramycin 6941
molecular weight, fluctuation spectroscopy 2362
netropsin 7424
plasmid, *Pseudomonas putida* 5117
Streptomyces 9453
Streptomyces aureofaciens, chlortetracycline 8173
streptonigrin-transition metal complex 9465
vaccinia virus, rifampin 4774
- DNA-cytosine methylase,**
Escherichia coli 5059
- DNA endonuclease,**
colicin E2 4042
- DNA photolyase,**
yeast, activator 9361
- DNA photolyase activator,**
Saccharomyces cerevisiae 25C7
- DNA polymerase,**
avian myeloblastosis virus, rifamycin derivatives 4773
avian myeloblastosis virus, rifamycin SV derivatives 4772
Escherichia coli 835
Escherichia coli, rifamycin derivatives 4773
Thermus aquaticus 836
- DNA restriction enzyme,**
Haemophilus influenzae 3267
- DNase,**
Staphylococcus aureus L-form 375C
- Dock,**
Rumex virus Z 9862
- Dodder,**
fruit tree virus 1610
- Dodecane,**
degradation, *Mucorales* 101C6
- Dodecanol,**
antiviral agent 5585
- Dodecylbenzene sodium sulphonate,**
bacterial degradation, water 6723
water bacteria 6723
- N-Dodecyl diethanolamine,**
Escherichia coli 3694
- n-Dodecylguanidine acetate,**
see Dordine
- 4-Dodecylmorpholine-N-oxide,**
antibacterial agent/antifungal agent 10196
- Dordine,**
Gnomonia leptostyla, black walnut 10016
Venturia inaequalis, apple 3571
- Dog,**
Brucella canis, plate test 2375
distemper virus vaccine/hepatitis contagiosa canis virus vaccine 2287
feed, *Escherichia coli* 1770
feed, *Salmonella enteritidis* 9623
kennel cough vaccine 668
- Dogwood,**
red osier, *Septoria cornicola*, benomyl 10008
red osier, witches' broom, mycoplasma-like organism, tetracycline/oxytetracycline/chloramphenicol 1928
silkly, witches' broom, mycoplasma-like organism, tetracycline/oxytetracycline/chloramphenicol 1928
- Dolichos,**
nodulation 2078
- Dolichos biflorus,**
seed, *Aspergillus flavus* 1838

Subject index

- Dolichos lablab,**
Colletotrichum lindemuthianum, seed treatment fungicide 2824
Nigrospora sphaerica, pectolytic enzymes 7643
nodulation 2078
Phakopsora pachyrhizi 6201
seed, Aspergillus flavus 1838
- Dollarspot,**
Sclerotinia homoeocarpa, phthalonitrile 3579
Sclerotinia homoeocarpa, turfgrass, fungicide tolerance 8796
- L-Dopa,**
see L-Dihydroxyphenylalanine
- Dopa decarboxylase-inhibiting isoflavone,**
Aspergillus niger 4147
Streptomyces nuyagawaensis 4147
- Dormant bacterium,**
Pseudomonas + Rhodopseudomonas, waste treatment 3121
- Dothichiza pythiophila,**
Scots pine seed 9997
- Dothidella ulei,**
plant disease 2656
- Dothiorella,**
8291
- Dothiorella ribis,**
fructification sections, scanning electron microscopy 3197
- Dothistroma pini,**
Austrian pine 6389
dothistromin, Bacillus megaterium/Chlorella pyrenoidosa, RNA 986
radiate pine 413 8003
Scots pine 6389
shore pine 4547
- Dothistromin,**
2-epi-, Cercospora smilacis 7065
Cercospora 7826
Cercospora smilacis 7065
Dothistroma pini, Eacillus megaterium/Chlorella pyrenoidosa, RNA 986
- Double diffusion,**
antigen + antibody 2368 2369
- Double diffusion test,**
microslide gel, Staphylococcus aureus enterotoxin A/enterotoxin B 3452
- Double disc method,**
bacterial beta-lactamase 3288
- Double reductase test,**
milk 9537
- Dough,**
bread, yeasts 1756
carbon dioxide 191
dried Saccharomyces cerevisiae 937 938
frozen, Saccharomyces cerevisiae, ethanol 3403
Iranian milk product 146
mushroom extract 192
yeast, sonication 8513
- Dow M-2452,**
Ascochyta rabiei, gram 2799
- Dowco 269,**
Bremia lactucae, lettuce 5426
- Dowfume M.C.2,**
Plasmodiophora brassicae, cabbage 6358
- Dowicil-200,**
cosmetic preservation 4698
- Downy leaf spot,**
Microstroma juglandis, walnut, fungicide 5465
- Downy mildew,**
Botrytis cinerea, grapevine, benzimidazoles 4515
Botrytis cinerea, grapevine, fungicide 5425
Bremia lactucae, lettuce 4367 5376
Bremia lactucae, lettuce, fungicide 4391 5426
Bremia lactucae, lettuce, resistance 4467 4468 7956
- Downy mildew (Contd),**
Peronospora arborescens, poppy 3520
Peronospora conglomerata, Geranium lucidum/Geranium nepalense 1060
Peronospora destructor, Allium cepa 4291
Peronospora destructor, onion, N-tetrachloroethyl-thio-4-cyclohexene-1,2-dicarboximide 8709
Peronospora farinosa, spinach, resistance 7958
Peronospora farinosa, sugarbeet 4367
Peronospora manshurica, soybean 5312
Peronospora parasitica, cabbage, resistance 2787 4459
Peronospora pisi, pea, resistance 4470
Peronospora sparsa, rose 8725
Peronospora trifoliorum, alfalfa 9752
Peronospora viciae, pea 4367
Peronosporaceae, plant disease 4298
Phytophthora phaseoli, lima bean 260
Plasmodiophora halstedii, sunflower 8734 9943
Plasmodiophora halstedii, sunflower, resistance 6244
Plasmodiophora viticola, grapevine 314 3513
Plasmodiophora viticola, grapevine, aminomethylenemalononitrile derivatives 3578
Plasmodiophora viticola, grapevine, 3-cyanamino-2,6-dinitroaniline derivatives 9976
Plasmodiophora viticola, grapevine, 2-cyanoacetamide derivatives 9974
Plasmodiophora viticola, grapevine, triazinedione derivatives 1119
Pseudoperonospora cubensis, cucumber, copper compound 2026
Pseudoperonospora cubensis, cucumber, light/temperature 9860
Pseudoperonospora cubensis, cucumber, resistance 4466
Pseudoperonospora cubensis, melon, resistance 4466
Sclerophthora macrospora, rice 3484
Sclerospora, corn 4330
Sclerospora graminicola, pearl millet 1021 1026
Sclerospora graminicola, pearl millet, resistance 2784
Sclerospora sorghi, sorghum 1037
Sclerospora sorghi, Sorghum bicolor 287
Sclerospora sorghi, sorghum, potassium azide 3575
Sclerospora sorghi, sorghum, zinc + maneb 1107
Uncinula necator, vine, diphenylamine derivatives 392
- Doxycycline,**
1580
+ amphotericin B, Candida albicans 5646
anaerobic bacteria 2994
antibacterial agent 5525
antibacterial agent, bacterial ATP 5700
antibacterial agent, calorimetry 5699
Bacteroides fragilis 2166
Brucella 7420
Clostridium perfringens 7371
Escherichia coli, microcalorimetry 2233
Neisseria gonorrhoeae 8118
Pseudomonas aeruginosa 4726
Pseudomonas pseudomallei 8117
resistance, bacteria 5525 5542
resistance, Escherichia coli 5542
sensitivity testing, anaerobic bacteria 10232
Staphylococcus aureus 2105
Staphylococcus aureus, resistance 2105
Ureaplasma urealyticum 5626
Vibrio cholerae 4729
vitamins/nicotinamide/p-aminobenzoic acid 2991

Subject index

Doxytetracycline,

- Escherichia coli 7313
- Escherichia coli, resistance 7313
- Klebsiella 7313
- Klebsiella, resistance 7313
- Proteus 7313
- Proteus, resistance 7313
- Staphylococcus aureus 7313
- Staphylococcus aureus, resistance 7313
- Streptococcus group D 7313
- Streptococcus group D, resistance 7313

DPX 10,

- Sphaerotheca fuliginea, cucurbit 4491

DPX-3217,

- Bremia lactucae, lettuce 5426
- Dracaena terniflora,
- Phyllosticta hesperidearum 1636
- Draculacephala minerva,
- Pierce's disease, grapevine, Lactobacillus 7152

Drainage water,

- metal industry, microbial purification 5508

Drechslera,

- Datura metel 1837
- ryegrass 285
- soil 3632
- Vitex negundo 1837

Drechslera australiensis,

- Rhodes grass 2698

Drechslera avenacea,

- oat, saponins 277

Drechslera biseptata,

- wheat 6233

Drechslera catenaria,

- reed canarygrass 2699

Drechslera chloridis,

- Rhodes grass 2698

Drechslera dictyoides,

- perennial ryegrass, Phylloplane bacteria 7889

Drechslera hawaiiensis,

- cowpea seed 1648
- Rhodes grass 2698

Drechslera iridis,

- Iris xiphium 6272

Drechslera maydis,

- see Helminthosporium maydis

Drechslera oryzae,

- rice seed 6223
- wild rice 4344

Drechslera papendorfii,

- wheat 4349

Drechslera poae,

- Kentucky bluegrass 8642

Drechslera rostrata,

- cassava 4378
- corn 8635
- wheat 4349

Drechslera sorghicola,

- Drechslera chloridis 2698

Drechslera sorokiniana,

- oat, biological control 1099 7202
- oat, seed treatment fungicide 1120
- wheat, biological control 1099 7202
- wheat, seed treatment fungicide 1120
- wild rice 4344

Drechslera speciferum,

- malabar nut tree 1837

Drechslera teres,

- barley 6206

Drechslera tritici-repentis,

- wheat 4350

Drechslera turcica,

- corn 7123.8637

Dredging,

- water sediment, coliforms 10484

Dried food,

- microorganisms 130
- Streptococcus 131

Drilling fluid,

- Azotobacter indicus heteropolysaccharide-7 1681
- oil well, Azotobacter indicus heteropolysaccharide 9446

Drink,

- see Beverage and under individual entries
- carbonated orange, yeasts 6093
- soft, yeasts 6093

Drinking straw,

- polypropylene, Anaricus bisporus preservation, liquid nitrogen 4708

Drinking trough,

- pig, disinfection 3145

Drip irrigation system,

- sulphur bacteria 716

Droplet plating,

- urine culture 7962

Drosophila melanogaster,

- aflatoxin E1 4263

Drosophila testacea,

- biological control, Fomitopsis annosa, pine 6390

Drug,

- crude, antibacterial agent/antifungal agent 3719
- testing 4015

Dry basal rot,

- Ceratocystis paradoxa, oil palm 5930

Dry matter digestibility,

- cellulose, ruminant feed 6095

Dry rot,

- Stromatinia gladioli, gladiolus 4389

Drying,

- Armillaria mellea, soil/Citrus 1997
- food preservation 8528

Du-ter,

- Cercospora oryzae, rice 4486
- Cochliocolus sativus, wheat 5420
- Entyloma oryzae, rice 4486
- Helminthosporium oryzae, rice 4486
- Pyricularia oryzae, rice 4486
- Rhizoctonia oryzae, rice 4486

Duck,

- feed, yeasts 9619
- frozen, Salmonella 168
- pericardite vaccine 669

Dursban,

- nitrogen fixation, Rhizobium + broad bean 6443

Dutch elm disease,

- Ceratocystis ulmi, American elm 5459
- Ceratocystis ulmi, elm 5458 6395 8005 8006 10013
- Ceratocystis ulmi, elm, carbendazim 6396
- Ceratocystis ulmi, elm, chain saw oil 10014
- Ceratocystis ulmi, elm, fungicide/herbicide 2044
- Ceratocystis ulmi, elm, kiln-dried lumber 10027
- Ceratocystis ulmi, elm, plant protection 4533
- Ceratocystis ulmi, elm, polygalacturonase/cellulase 3619
- Ceratocystis ulmi, elm, resistance 3620 8854
- Ceratocystis ulmi, elm, sanitation 416
- Ceratocystis ulmi, methyl-2-benzimidazole carbamate 4534
- Ceratocystis ulmi, nystatin 4534

Dutex,

- Alternaria cepulicola, onion 4492

Dwarf bunt,

- Tilletia controversa 1896
- Tilletia controversa, Hordeum leporinum 4320
- Tilletia controversa, wheat 2714
- Tilletia hordei, Hordeum leporinum 4320

Dye,

- antibacterial agent,
- benzotriazine-1,4-dioxide derivatives 2091

Subject index

- Dye (Contd).**
bactericide/fungicide, triorganotin compounds/triorganolead compounds 2129
- Dyfonate,**
soil microorganisms 454
- Dying arm,**
Eutypa armeniaca, grapevine 7866
- Dynamic calorimetry,**
fermentation 2543
- Dysentery,**
cattle, *Escherichia coli* vaccine 6667
pig, *Escherichia coli* vaccine 6667
swine, lincroycin + spectinomycin/tylosin + sodium arsanilate feed 954
- Ear rot,**
Diplodia macrospora, corn 4330
Diplodia zeae, corn, resistance 6406
Fusarium graminearum, corn, resistance 6406
Fusarium moniliforme, corn, resistance 6405
Fusarium moniliforme, maize 4332
Gibberella zeae, corn 4330
Nigrospora oryzae, corn, resistance 6406
- Early blight,**
Alternaria solani, potato, fungicide + sprinkler irrigation system 7970
Alternaria solani, tomato 8740
Alternaria solani, tomato,
furan-3-carboxamide derivatives 1112
Alternaria solani, tomato, phthalimide derivatives 2815
Alternaria solani, tomato, resistance 8780
- Earthworm,**
Pithomyces chartarum, pasture 2067
- Eastern cottonwood,**
Marssonina brunnea 6394
resistance, *Marssonina brunnea* 5456
resistance, *Melampsora medusae* 5456
- Eastern equine encephalomyelitis virus,**
cell culture, gentamicin 611
- Eastern filbert blight,**
Anisogramma anomala, filbert 4363
- Echinocandin B,**
3,4-dihydroxyhomotyrosine 3805
structure 4799
- Echinochloa colona,**
cereal chlorotic mottle virus 7117
viral stunting disease 7122
- Echinodontium taxodii,**
cypress 5448
- Echinodontium tinctorium,**
conifers 5446
- Echinomycin,**
conformation 10366
DNA 635
- Echovirus,**
adamantane derivatives 4680
African green monkey kidney EGM cell line 790
aminophenyl-adamantane derivatives 2963
estuarine water 1505
food 124
fruit extract 2962
grape/grape juice/wine 4672
sea water 1505
sewage 9201
shellfish 4215
swimming pool 3143
- Echtes Ackerbohnenmosaik-virus,**
broad bean 3459
broad bean stain virus 1007
sodium dodecyl sulphate 2397
- Econazole,**
antibacterial agent/antifungal agent 2974
- Ectomycorrhiza,**
Cenococcum graniforme, forest tree 2828
- Ectostroma,**
8291
- Ectothiorhodospira shaposhnikovii,**
sulphur isotope fractionation 2904
- Edeine,**
Pacillus 9054
- Edman method,**
actinoidine peptides/aglycones 9118
- EDTA,**
+ penicillin, *Escherichia coli*, endonuclease I, cyclic phosphodiesterase 9386
plant viruses 2397
- Edwardsiella tarda,**
catfish 7774
cephalosporin derivatives 5665
- Eel,**
smoked, *Salmonella typhimurium*, food poisoning 2586
- Effluent,**
see also Waste and Sewage
activated sludge, aeration 5793
brewery, treatment 1460 9184
carbonisation, activated sludge treatment 685
chlorinated, coliforms, membrane filtration 3110 9271
dairy, activated sludge treatment 6696
dairy, assay 7477
dairy, spray irrigation disposal 3873
dairy, treatment, *Enterobacter liquefaciens/Serratia atypica* 3115
dairy, treatment, lagoon 4858
denitrification 3119 3881
disinfection,
chlorination-dechlorination-postaeration system 3113
food industry, treatment 6693 9184
hexachlorophene, microbial degradation 689
maltling, treatment 1460
meat-packing plant, bacteria 6697
nuclear reactor, lake water, *Aeromonas* 4881
oxethane, microbial degradation 6708
ozone disinfection 9198
paper industry, fungal treatment 10450
paper industry, wastewater treatment 4864
rubber latex, bacterial methane fermentation 690
Salmonella 1463
septic tank, denitrification, *Thiobacillus denitrificans* 1464
sewage lagoon, reed canarygrass irrigation, coliforms 4607
sewage, peracetic acid disinfection 5783
sewage, poliovirus, soil 3108
sewage, *Salmonella* 3095 8209
sewage, soil microorganisms 6450
sewage, soil/vegetables spray-irrigation, *Mycobacterium bovis* BCG 9205
sewage, treatment 9199
sewage, treatment, immersion filter 2317
sewage, vegetable spray irrigation, viruses 5784
soil disposal, poliovirus, vegetable crops 4561
soil disposal, viruses 4606
soil irrigation 9189
tannery, treatment 10449
treatment 701 3122 3123 3852 4863 7467 9209
treatment, activated sludge 3101 3851 10461
treatment, reusable water 5789
treatment, slimicide, 1,3-dichloroacetone oxime acetate + beta-bromo-beta-nitrostyrene 2320
vegetable industry, treatment 6699
waste, land disposal 3106
wastewater, re-use 6680
wastewater treatment 3100 3853 3854 3855 3856 3857 3858 4860 4861 6681
- Efrotonycin,**
antibacterial agent 5731

Subject index

Efrotomycin(Contd),

Streptomyces lactamdurans, antibacterial agent/animal feed 4800

Egg,

aflatoxins 6137
albumen, Salmonella oranienberg 928
bacteriology 700R
green rotten,
Pseudomonas/Flavobacterium/Chromobacterium 163

Japanese quail, aflatoxins 6138
liquid, Salmonella 3396
microbiology 776C

poultry, glutaraldehyde disinfection 3908
Pseudomonas oraeolens 921
Salmonella 1744 6075

Salmonella, dazomet, poultry hygiene 733
Salmonella, strontium selenite/strontium chloride medium 164

shell surface microorganisms, hot water treatment 9672

spray-dried white, whipping properties, bacterial fermentation 7010

spray-dried white, whipping properties, yeast 701C

white, bacteria 7009

whole, microorganisms, heat resistance, thermal death time pouch 3397

Egg plant,

Verticillium dahliae, fungicide 4489

Egg product,

microbiology 7760

Egg yolk factor,

Staphylococcus, agar plate tests 2417

Eggplant,

see also Brinjal

alfalfa mosaic virus 9863

brinjal mosaic virus, root-knot nematode 2740

green mosaic virus 6265

little leaf disease, mycoplasma-like organism 5372

Myrothecium roridum 3504

rhizosphere fungi, oilcake 2063

rhizosphere mycoflora, soil treatment 3634

Septoria lycopersici 336

tobacco ringspot virus 8692

Verticillium albo-atrum 9846

Verticillium dahliae 4370

Ehretia laevis,

Hendersonia luzulae 1836

Ehrlich ascites carcinoma,

sporamycin 6940

Ehrlich carcinoma,

chlorocarcin A/chlorocarcin B/chlorocarcin C 2263 2264

Proteus mirabilis lipopolysaccharide 3337

Ehrlich solid carcinoma,

carbamoyl mycophenolic acid ethylester 874

mycophenolic acid derivatives 873

EI 222,

Sphaerotheca fuliginea, cucurbit 4491

Eichhornia crassipes,

Alternaria eichhorniae, toxin 7823

Cercospora rodmanii 8745

Eicosenoic acid,

Streptococcus mutans, gas chromatography 5889

Eikonella corrodens,

preservation 4703

EL-273,

seed treatment, Sclerotium rolfsii, lentil 4523

Elaeagnus angustifolia,

Botryodiplodia theobromae 2045

Elaeis guineensis,

Cercospora elaeidis, fungicide 8803 9968
fungi 4220

Fusarium oxysporum 7925

Fusarium oxysporum, potassium chloride 387

Elaeis guineensis,

Ceratomyxistis paradoxa, cellulase 5930

Elastase,

Bacteroides 3249

Epidermophyton floccosum 7608

Staphylococcus epidermidis 5061

Elaeagnus angustifolia,

Phomopsis elaeagni 4539

Electric sterilisation,

coliform, sewage treatment 706

Electrical impedance,

antibiotic sensitivity testing 10230

Electrical polarisability,

bacterial, antibiotics 7365

Electrical power,

yeast, Trichoderma viride enzyme, waste cellulose 2432

Electrical resistance,

cricket bat willow, Erwinia salicis 8862

Norway maple, Verticillium albo-atrum 8857

sugar maple, Verticillium albo-atrum 8857

Electrochemical sterilisation,

beer 2545

Electrode,

fast-response oxygen, fermenter aeration capacity 7693

ion-sensitive, tetrathionate oxidation, Thiobacillus denitrificans 6457

oxygen, fermenter 5161

pH, fermenter 5161

Electrode monitoring,

bacterial respiration 3953

Electrolytic,

drinking water disinfection 7499

Electrolytic respirometer,

wastewater 6634

Electron-capture detector,

+ gas-liquid chromatography, sterigmatocystin, cereal 7074

Electron microscope,

see Microscope, electron

Electronic somatic cell count,

milk 5207

Electronic spectrum,

actinomycin D 5713

Electrophoresis,

agarose, Escherichia coli polysaccharide K antigen 3178

agarose-suspension, Tween 20, Acholeplasma laidlawii membrane protein 5897

countercurrent immuno-, oral vaccine, antigens 3083

counterimmuno-, microbiology 3161

counterimmuno-, Staphylococcus aureus antibody 1576

high voltage, antibiotics, animal feed 9626

high voltage, Escherichia coli dihydrofolate reductase 6886

immuno-, Escherichia coli K antigen 5842

immuno-, Escherichia coli O antigen 5842

polyacrylamide gel, Clostridium perfringens enterotoxin 9732

polyacrylamide gel, Escherichia coli DNA 6938

polyacrylamide gel, Marek's disease virus, DNA 9452

polyacrylamide gel, poplar mosaic virus 6399

polyacrylamide gel, potato spindle tuber viroid, potato 6284

polyacrylamide gel, vaccinia virus protein 10641

potato virus M, potato 5384

potato virus S, potato 5384

potato virus X, potato 5384

potato virus Y, potato 5384

Electrophysiology,

microbial plant disease 4287
plant disease 3454

Electrosterilisation,

see Sterilisation, electro-

Subject index

- Elenolate,**
calcium, influenza virus 4674
- Eleusine coracana,**
Helminthosporium nodulosum 1943
Helminthosporium tetramera 1944
Helminthosporium tetramera, phenolic compound 1945 1946
Fyricularia 258
seed, Aspergillus flavus 1838
virus disease 1869
- Eleusine indica,**
cereal chlorotic mottle virus 7117
Uromyces eragrostidis 893
virus disease 1869
- Elliotxin,**
yeasts 2170
- Elm,**
American, Ceratocystis ulmi 5459
Cephalosporium 5458
Ceratocystis ulmi 5458 6395 8005 8006 10013
Ceratocystis ulmi, carbendazim 4396
Ceratocystis ulmi, chain saw oil 10014
Ceratocystis ulmi, fungicide/herbicide 2044
Ceratocystis ulmi, kiln-dried lumber 10027
Ceratocystis ulmi, methyl-2-benzimidazole carbamate 4534
Ceratocystis ulmi, nystatin 4534
Ceratocystis ulmi, plant protection 4533
Ceratocystis ulmi,
polygalacturonase/cellulase 3619
Ceratocystis ulmi, sanitation 416
phloem necrosis, mycoplasma-like organism 10012
resistance, Ceratocystis ulmi 3620 8854
Verticillium 5458
winged, resistance, Lenzites trabea 420
- Elsholtzia blanda,**
Coleosporium plectranthi 997
- Elsinoe ampelina,**
plant disease 2656
- Elsinoe fauettii,**
Citrus, thioureidobenzene phosphates 2014
- Elutriator,**
Cylindrocylindrium crotalariae, peanut soil 1167
semi-automatic, soil fungi 2059
- Elymus,**
alkaloid 7477
- Embedding,**
bacteria, electron microscopy 4927
- Embic myrobolan,**
Penicillium funiculosum post-harvest decay 4436
- Emblia officinalis,**
antibacterial agent/antifungal agent 6523
- Embryo,**
chicken, intravascular inoculation, syringe-stabilizer unit 1604
- Emeric allopsis,**
cephalosporin 6568
- Emericella nidulans,**
coal mine soil 2062
- Emericellopsis glabra,**
deacetoxyccephalosporin C 10282
- Emericellopsis microspora,**
deacetoxyccephalosporin C 10282
- Emericellopsis minima,**
acylase, 7-aminocephalosporanic acid derivatives 2207
- Empoasca fabae,**
Fusarium roseum, alfalfa 6174
Fusarium roseum, red clover 6174
Fusarium roseum, white clover 6174
- Emporase,**
Mucor pusillus, rennet casein 2573
- Emulsion,**
antibacterial agent, hexamethylenetetramine + 3,4-dichlorobutene-1 1213
aqueous oil, fungistat/bacteriostat, tenzothiazole-3-one derivatives 534
- Enviomycin,**
resistance, Mycobacterium tuberculosis 6482
- Enamel,**
epoxy, fungal degradation 905
- Encephalitis virus,**
food 124
tick-borne, adsorption chromatography 10637
- Encephalomyocarditis virus,**
EL-1849A 2124
dihydroxyanthraquinone derivatives 7342
RNA complexes 8084
- Endo-cellulase,**
Verticillium dahliae, plant disease 2666
- Endo-polygalacturonase,**
Verticillium dahliae, plant disease 253 2666
- Endo-tracheal catheter,**
sterilisation 5603
- Endonartium harknessii,**
lodgepole pine 411
Scots pine, maneb 2039
- Endogonaceae,**
forest soil 7226
soil 434
soil, subsoiling 10038
- Endogone,**
Agrostis, phosphorus 8877
plant rhizosphere 7257
soil 7257
- Endomyces vernalis,**
antibiotics 2170
- Endomycetales,**
2-substituted-4(R)-hydroxy-cyclopentane-1,4-dione 4140
- Endomycin,**
yeasts 2170
- Endomycopsis,**
acetoin 3344
diacetyl 3344
slime, fibreboard industry 10471
- Endomycopsis burtonii,**
+ Amylomyces rouxii, Indonesian tape ketan fermentation 8452
bakery dust 9172
- Endomycopsis fibuligera,**
biomass 6826
glucoamylase 5L65
- Endonuclease,**
Hind-Glu, Haemophilus influenzae 4086
Micrococcus luteus 9388
P15 restriction, Escherichia coli 8360
restriction, Bacillus stearothermophilus 5062
restriction, Escherichia coli 7621
restriction, Haemophilus influenzae 3267
Serratia marcescens, protein 5063
- Endonuclease I,**
Escherichia coli, cold shock method 9387
Escherichia coli, penicillin + EDTA 9386
- Endopeptidase,**
D-alanyl-meso-2,6-diaminopimelic acid, Streptomyces, Lactobacillus plantarum peptide/oligo-peptide 4063
Penicillium caseicolum, cheese 3390
Penicillium roqueforti, cheese 3390
Streptococcus lactis, cheese 3390
- Endopolygalacturonase,**
Botrytis cinerea 1631
Fusarium monitiforme 1631
Pestalotia 1631
Phoma exigua 1631
Rhizoctonia bataticola, okra 1070
- Endoscope,**
disinfection, pHisoHex/hexachlorophene 8251
urinary, steam + formaldehyde sterilisation 9013

Subject index

- Endosulphan,**
wood preservative 10034
- Endothia gyrosa,**
osmotic water potential 5461
pin oak 5461
- Endothia parasitica,**
chestnut, biological control 3617
enzymes, food 134
milk-clotting enzyme, casein/cheese 923
osmotic water potential 5461
protease, milk beta-casein 7001
rennet 45
rennet, cheese 5094 5222 6045
rennet, Edam cheese 7754
suparen, cheese 8494
- Endothia singularis,**
osmotic water potential 5461
- Endothia tropicalis,**
osmotic water potential 5461
- Endotoxin,**
Bacillus thuringiensis, insecticide 3441 7079
bacterial 1813 2642 4017 9305
bacterial, assay, *Limulus amoebocyte* lysate test 7845
bacterial, assay, spectrophotometry 9724
bacterial, biological fluid 992
bacterial, drinking water, *Limulus amoebocyte* assay 1218
bacterial, *Limulus amoebocyte* assay 7077
bacterial, *Limulus amoebocyte* lysate test 5283 8576
bacterial, *Limulus amoebocyte* lysate test, quality control 7843
bacterial, *Limulus amoebocyte* lysate test, quality control, vaccines, sera 7844 7846
bacterial, *Limulus amoebocyte* lysate test/United States Pharmacopeial pyrogen test 8575
bacterial, *Limulus polyphemus* test 243
bacterial, *Limulus* test, quality control, infusion solution 1817
bacterial, *Limulus* test/radioimmunoassay 4273
bacterial, wastewater, *Limulus amoebocyte* assay 1818
Bacteroides fragilis, fatty acids 7848
Bordetella parapertussis 1819
Bordetella pertussis 1819 3443 4838
Bordetella pertussis,
7-0-(2-amino-2-deoxy- α -D-glucopyranosyl)-L-glycero-D-manno-heptose 7849
Bordetella pertussis,
2-0-(beta-D-glucuronyl)-7-0-(2-amino-2-deoxy- α -D-glucopyranosyl)-L-glycero-D-manno-heptose 8577
Brucella 3444
Erwinia herbicola 5289
Escherichia coli, *Limulus* test/radioimmunoassay 4273
Escherichia coli, plasma, spectrophotometry 3440
lipid A, *Fusobacterium nucleatum* lipopolysaccharide 3330
Listeria monocytogenes 6154
Salmonella typhi, gel chromatography, light scattering 9737
Salmonella typhimurium, plasma, spectrophotometry 3440
tritiated, *Escherichia coli*, *Limulus amoebocyte* lysate test/rabbit pyrogen assay/complement-activation assay 9725
Vibrio parahaemolyticus 4284
Yersinia enterocolitica 4286
- delta-Endotoxin,**
Bacillus thuringiensis 2652
Bacillus thuringiensis, Colorado potato beetle 4150
Bacillus thuringiensis, insecticide 8578
- Endrin,**
Bemisia tabaci, chilli leaf curl virus, chilli 7964
rice rhizosphere microorganisms 8916
- Enduracidin,**
9501
- 4-Ene-3-oxosteroid-Salpha-reductase,**
Mycobacterium smegmatis 4289
- Energetics,**
microbial 4016 5877
- Enniatin,**
antibacterial agent 652
- Enniatin B,**
bis-derivatives 4829
Fusarium oxysporum 3806
stereoisomeric cyclohexadepsipeptides 3069
- Enokidake,**
germanium, plant growth promotant/antiviral agent/antifungal agent 1674
- Enomycin,**
protein synthesis inhibition 873
- Enoyl CoA hydratase,**
Escherichia coli fatty acid oxidising enzyme complex 6887
- Enramycin,**
+ protein SP127, *Pseudomonas aeruginosa* 8335
- Enteric colibacillosis,**
cattle, *Escherichia coli* vaccine 7461
- Enterobacter,**
acetoin 5142
amikacin 2189
amikacin/gentamicin/kanamycin/sisomicin/tobramycin 7384
aminoglycoside antibiotics 1319
aminonucleoside antibiotic, 2-amino-2-deoxyguanosine 6623
antibacterial agent 5752
antibiotic resistance 4632 4634
antibiotics 6557 6565
azlocillin 8155
benzotriazine-1,4-dioxide derivatives 2091 2115
bile-esculin agar 9272
cefaclor/cephalexin 10271
cefamandole 3772
cefatrizine 588
cefazafur 7401
cefazolin 7402
cefazolin resistance 7402
cefuroxime/cephalothin 10277
cephalosporin derivative FR10024 5661
cephalosporin derivatives 1340 3769 7394
cephalosporins 1524 2195
cephalothin/cefamandole/cefoxitin 1325
chicken + soybean patties 7764
cloxacillin + amoxycillin 8149
coconut palm 5370
dicloxacillin + ampicillin 8149
drinking water 7497
drinking water, redwood storage tank 7498
flucloxacillin + amoxycillin 8149
food, antibiotic resistance 4633
formic acid 8317
gentamicin 2189
gentamicin resistance, tobramycin 6484
gentamicin/sisomicin/tobramycin 6562 6563
glycosidases 3171
mezocillin 5672
municipal water 7497
netilmicin 1429 3814 9145 10352
netilmicin/gentamicin/tobramycin/amikacin 2189 5750
netilmicin/gentamicin/tobramycin/amikacin/sisomicin 2184
netilmicin/gentamicin/tobramycin/sisomicin 5751
netilmicin/sisomicin 3815
PathoTec system 7540
phospholipase C, milk 5203
prompt lactose-fermenting, test scheme 5830

Subject index

Enterobacter (Contd),

sisomicin 2189 4825 6651 6652 10406
sisomicin/gentamicin 3757
skin 4904
sulphacycline 528
sulphamethoxazole-trimethoprim 2941
terizidone 650 5555
tests 1565
ticarcillin/antibiotic EL-P1654/carbenicillin 605
tobramycin 528 2189 3076 4827
Torulopsis colliculosa 3345

Enterobacter aerogenes,

antibacterial agent/antibiotic 1214
antibiotic sensitivity testing 4718
Aristida oligantha rhizosphere, nitrogen fixation, Rhizobium/Azotobacter 2075
L-aspartase immobilization 4056
azetidinone derivatives 3687
brewery, culture medium 7699
3-bromoacetoxy tetrahydrofuran 533
carbamyloxy-benzamide derivatives 4691
cefaclor 10272
cephalosporin derivatives 570 1339 1341 1342 1343 2199 3017 3019 7015 8124 9070
cephalosporinase 9372
cephamycin derivatives 6575
cyanodithioimidocarbonic acid derivatives 1261
cysteine desulphydrase, L-cysteine 6829
D-3,6-diaminohexanoic acid
2-(carboxymethyl)-2-methylhydrazine 2151
dithiocarbamate derivatives 6526
gentamicin/sisomicin/tobramycin 6564
iron oxidation 4613
meat/hide 4210
milk 139
MORLUC numeric system 1567
nebramycin 2265
netilmicin/gentamicin/amikacin 4741
netilmicin/gentamicin/tobramycin 10393
8-oxo-4-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid 8122
oxolinic acid 528 5563
paper mill water system, nitrogen fixation 1497
penicillins 3777
sisomicin/gentamicin/tobramycin 7386
sterile beef tissue 2580
substituted sulphonylacetaido cephalosporins 2204 2205 2206
thiocyano xanthate derivatives 2972
trifluoromethyl
phenyl-3-(3',5'-dicyanophenyl)urea 2140
violet red bile agar 6771

Enterobacter agglomerans,

amikacin 7427
cefaclor 10272
MORLUC numeric system 1567
tests 4946

Enterobacter cloacae,

3-deoxybutyrosin A 2253
5-amino-5-deoxybutyrosin 1409
amikacin 7427
2-amino-2-deoxyguanosine 9123
aminotridoxobutyrosin A 2254
antibiotic sensitivity testing 4718
antibiotics 2993
cefaclor 10272
cephalosporin derivatives 570 1312 1335 1341 8124 8140
cephalosporins 3016
cephamycin derivatives 6575
cysteine desulphydrase, L-cysteine 6829
econazole 2974
fish jelly product browning 1754
flower vase water, potted plants, hospital hygiene 10489
frozen erythrocytes 1297
gentamicin aminocyclitol analogues 6599

Enterobacter cloacae (Contd),

hospital food 126
beta-lactamase, cephalosporins 1323
beta-lactamase, double disc method 3288
meat/hide 4210
miconazole 2574
MORLUC numeric system 1567
nebramycin 2265
Neisseria gonorrhoeae 3990
netilmicin/gentamicin/tobramycin 10393
8-oxo-4-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid 8122
paper mill water system, nitrogen fixation 1497
penicillin derivatives 1312 7409
silver nitrate 2937
substituted sulphonylacetaido cephalosporins 2204 2205 2206
thienamycin 651
ticarcillin + tobramycin 9052

Enterobacter hafniae,

Camembert cheese 9567
cefaclor 10272
cephalosporins 2203
frozen erythrocytes 1293
hospital food 126
netilmicin/gentamicin/tobramycin 10393
spices 1761
tests 4946

Enterobacter liquefaciens,

dairy effluent treatment 3115
Emmentaler cheese 2576
meat/hide 4210
milk 8481
spices 1761
xytol 2540

Enterobacteriaceae,

air-dried beef 172
aminoglycoside antibiotics sensitivity testing 10259
ampicillin 4767 10269
antibiotic Sch 2636/netilmicin/gentamicin/tobramycin 563
antibiotic sensitivity testing 4720
antibiotic sensitivity testing, Autobac 1 9036
antibiotics 6557 6565
API test system/Enterotube test system/Pathotec test system 10558
arginine 5895
beef carcass 170
bile-esculin agar 9772
blood culture 768
brewery, hygiene 8444
carbamamidoquinoxaline-di-N-oxide derivatives 1226
cefaclor 10272
cefuroxime/cephalothin 10277
cephalosporins 2194 3753 10269
cephalothin-resistant, cefoxitin/cephalosporin 3L-5786 10275
chicken carcass 7011
chicken carcass, cotton swab sampling/alginate swab sampling 1745
deoxyribonuclease-indole medium 7541
deoxyribonuclease test 4947
detection device 773
dry sausage 3400
egg 7008
Enterotube system/API 20E system/Minitek system 10557
Enterotube test 3973
esculin hydrolysis 1562
estuarine water/sediment, petroleum degradation, numerical taxonomy 10109
fatty acids 10560
fishmeal, Salmonella 1771

Subject index

Enterobacteriaceae (Contd.),

food, Enterotube/Pathotec Rapid I-D System/Modified-Expanded R/B Enteric Differential System/API-20 Enteric System/Minitek Differential System 9534
gentamicin/sisomicin/tobramycin 6562 6563 6564
gentamicin/tobramycin 4740
German sausage 184
glycosidases 3171
Haemophilus influenzae bactericidal factor 6844
hospital food 126
hospital intensive care unit 3916
identification systems 10559
indole, Kovacs' reagent, quality control 4945
lysine/ornithine/arginine degradation, Nessler's reagent 4936
marine, petroleum degradation 10111
meat 6083
mecillinam 4767
mecillinam + beta-Lactam antibiotic 1366
milk 8481
minced meat, counts 2584
Minitek system 3974
MORLOC system/API 20E system 3277
MORLUC numeric system 1567
netilmicin 1429
netilmicin/gentamicin/amikacin 4741
netilmicin/gentamicin/tobramycin 10393
netilmicin/gentamicin/tobramycin/amikacin 2185 5750
netilmicin/gentamicin/tobramycin/amikacin/sisomicin 2184
Netilmicin/gentamicin/tobramycin/sisomicin 5751
paper mill water system, nitrogen fixation 1493
PathoTec Rapid I-D System 2378
penicillin derivatives 1357
penicillins 3753
pentachlorophenol, water microorganisms 9220
pig slaughtering hygiene 742
prepacked herring 4246
prompt lactose-fermenting, test scheme 5838
purine degradation 119
R/B Enteric Differential System 8273
R-factor, antibiotics resistance 4629
rapid KCN-test 3170
resistance, ampicillin 4767
resistance, mecillinam 4767
resistance, pyocin P1 7447
river water 2338
river water, nalidixic acid selective medium 720
safety-processed food 8469
Salmonella, minitek system 4965
sausage emulsion, counts 2584
seafood, iodine + polyvinylpyrrolidone 967
sewage, antibiotic + inorganic metal resistance 2925
sisomicin 6651 10406
sodium acetate medium 7556
sulphadiazine + antibiotics, resistance 8945
tests 1565 1566 4946
ticarcillin + tobramycin 9052
tobramycin 6661
turkey faeces, oxytetracycline feed 7042
Tween 80 differentiation medium, Serratia 10588
vacuum-packaged beef 1791 2614 6127
valine 5895
water, food industry 5795

Enterochelin,

Escherichia coli 884 8332

Enterocin,

Streptococcus group D, food, antibacterial agent 2559

Enterocin (Contd.),

Streptomyces candidus/Streptomyces viridochromogenes, bacteriostat 1415
Streptomyces candidus, structure 6635
Streptomyces viridochromogenes, structure 6635

Enterococcus,

see also Streptococcus, group D
nitrothiazole derivatives 1269

Enterotoxin,

Bacillus cereus 1820 4274 4275 4276
bacterial 4017 5284
Clostridium perfringens 2645 7064 9731
Clostridium perfringens, affinity chromatography 1821 3448
Clostridium perfringens, culture medium 7085
Clostridium perfringens, food 9532
Clostridium perfringens, immunofluorescence 7855
Clostridium perfringens, polyacrylamide gel electrophoresis 9732
Clostridium perfringens, welchicin 7854
Escherichia coli 2646 5284 6153 9734 9735
Escherichia coli, food poisoning 1713
Escherichia coli, infant mouse assay 5290
Escherichia coli, K99 antigen, Minca medium 5842
Escherichia coli, lincomycin induction 5291
Escherichia coli, medium 6152
Escherichia coli, micro-assay 2643
Escherichia coli, passive immune haemolysis assay 7088
Escherichia coli, rat perfusion assay 4277
Escherichia coli, serological assay 9733
Escherichia coli, Vero cell culture assay 7089
Salmonella 5284
Staphylococcus 9739
Staphylococcus aureus 4274
Staphylococcus aureus, food 1822 1823
Staphylococcus aureus, microslide gel double diffusion 995
Staphylococcus aureus, milk 5259
Staphylococcus, food 2647 6031
Staphylococcus, food poisoning 1713
Staphylococcus, gastric juice, radioimmunoassay 4278
Staphylococcus, goat meat 7097
Staphylococcus, milk/milk industry 2648
Staphylococcus, porridge, food poisoning 1757
Vibrio cholerae 996 3453 7399 9735
Vibrio cholerae, Escherichia coli, tryptophanase, adenylate cyclase 9743
Vibrio cholerae, structure 247 2644
Vibrio parahaemolyticus, ligated rabbit ileum 4285

Enterotoxin A,

Staphylococcus 1825
Staphylococcus aureus 1826 9740
Staphylococcus aureus, canned pork, food poisoning 2582
Staphylococcus aureus L-form 3450
Staphylococcus aureus, microslide gel double diffusion test 3452
Staphylococcus aureus, salami 9741
Staphylococcus, food 1824 2649
Staphylococcus, radicoinine labelling 4279

Enterotoxin B,

Staphylococcus aureus 2650 7093 7094 7095
Staphylococcus aureus, cerulenin 7859
Staphylococcus aureus, chloramine-T iodination 7090
Staphylococcus aureus, food 1822
Staphylococcus aureus, heat treatment 6157
Staphylococcus aureus L-form 3450
Staphylococcus aureus, microslide gel double diffusion test 3452
Staphylococcus, food, radioimmunoassay 6156
Staphylococcus, microslide 1827

Subject index

Enterotoxin B(Contd).

Staphylococcus, structure 4280

Enterotoxin C.

Staphylococcus aureus, canned pork, food poisoning 2532

Staphylococcus aureus, cerulenin 7859

Staphylococcus aureus L-form 3450

Enterotoxin D.

Staphylococcus aureus, sausage, food poisoning 245

Enterotube.

Salmonella/Enterobacteriaceae, food 9534

Enterotube test system.

Aeromonas formicans 10558

Aeromonas hydrophila 10558

Enterobacteriaceae 3973 10557 10558

Plesiomonas shigelloides 10558

Enterovirus.

estuarine water 1505

estuarine water, filtration + aluminium hydroxide flocculation 9224

estuary water, filtration 8243

food 7716

membrane chromatography 4005

pig slurry, rotating aeration 4857

porcine, single-step concentration 10629

sea water 1505

sewage 9201 10460

sewage, gauze pad 6709

shellfish 4215

sludge sewage 2300

swimming pool 3143

tap water, pleated cartridge filter regeneration 6716

waste 7485

water 9223

water, gauze pad 6709

water, pilot treatment plant 10473

Entobacterin.

4711

Entomospodium maculatum.

Rosaceae 5297

Entomospodium mespili.

Raphiolepis 6294

Entyloma oryzae.

rice, fungicide 4486

Envelope protein.

Borotetella pertussis, radiolabelling, iodine-125-lactoperoxidase 4943

Environment.

Salmonella 3095

Environmental pollution.

2155

air filter 4889

cyanide 2536

microbiological sampling system 2363

Mycobacterium 8875

room, antifungal agent 3909

Salmonella 7465 8209

Shigella sonnei, indirect haemagglutination 8285

Viking spacecraft 6805

Environmental pollution: General.

670-672, 2788-2290, 3094, 3095, 3840, 3841,

4847-4851, 6670, 6671, 7462-7465, 8204-8209,

9172, 10433, 10434

Environmental pollution: Hygienic aspects.

726-749, 1507-1538, 2341-2355, 3137-3148,

3902-3935, 4889-4913, 5801-5817, 7508-7529,

8245-8262, 9228-9244, 10485-10505

Environmental pollution: Industrial water systems.

716, 717, 1493-1496, 2318-2320, 3124-3126,

3890, 3891, 6715, 7493, 9213, 9214,

10468-10471

Environmental pollution: Other water systems.

718-725, 1497-1506, 2321-2340, 3127-3136,

3892-3901, 4869-4888, 5792-5800, 6716-6724,

7454-7557, 8217-8244, 9215-9227, 10472-10484

Environmental pollution: Waste disposal.

673-715, 1451-1492, 2291-2317, 3096-3123,

3842-3849, 4852-4868, 5774-5791, 6672-6714,

7466-7492, 8210-8236, 9173-9212, 10435-10467

Enzyme.

Aspergillus flavus, aflatoxin 5045

Aspergillus oryzae, miso 6018

Aspergillus oryzae, soy sauce 5183

Aspergillus parasiticus, aflatoxin 5045

Aspergillus sojae, soy sauce 5183

Bacillus circulans, Staphylococcus aureus

N-acetylglucosaminyl ribitol teichoic acid degradation 864

bacteria treatment, bacteria 2313

bacterial, API ZYM system 9260

bacterial, cephalixin 9136

bacterial, milk 6997

carboxypeptidase-like, Streptomyces griseus, pronase, affinity chromatography 50

cellulose-decomposing, fungal, cellulose pulp 1707

Cephalosporium sacchari, sugarcane 4347

Chromatium vinosum, delta-aminolaevulinic acid, porphobilinogen 5154

Chromatium vinosum, delta-aminolaevulinic acid, uroporphyrin III 5154

Colletotrichum coccodes, tomato 6309

food additive, sterilisation, gamma-radiation 1781

fungal 6815

Glucobacter melanogenus, L-sorbose,

L-sorbose, 2-keto-L-gulonic acid, L-idonic acid 5024

immobilised microbial cells 7595

immobilization 796

immobilization, microorganisms 2

Lactobacillus, blue dextran-Sepharose 4B,

affinity chromatography 1652

Lignin-decomposing, fungal, cellulose pulp 1707

Lignin-degrading, fungi 6403

macerating, Geotrichum candidum, vegetable protein 4221

macerating, Helminthosporium spiciferum 4059

microbial 802 5008 6874 7607 9561

microbial, beer wort 7698

microbial cell membrane protein 5912

microbial cell wall-lysing, Pellicularia

sasakii/Pellicularia filamentosa 4072

microbial, conjugates, immobilisation 7612

microbial, food 134

microbial, immobilisation 825 826 8345 8346 9352

microbial, immobilisation, calcium alginate

gel 6819

microbial, immobilisation, concanavalin

A-magnetite 8305

microbial, immobilisation,

photo-crosslinkable resin oligomer 5957

microbial, immobilised 5040

microbial, immobilization 4056

microbial, immobilized 3248

microbial, immobilized, pharmaceutical 5039

microbial, milk product 7739

microbial, organophosphate insecticide

hydrolysis 113

microbial, polyacrylic acid 8344

microbial, soil 10043

microbial, soil, Lead 6409

microbial, zero gravity 4031

milk-clotting, Endothia parasitica 5094

milk-clotting, microbial 5094

milk-clotting, microbial, cheese 5222

milk-clotting, Mucor miehei 5094

Subject index

Enzyme(Contd),

milk-clotting, *Mucor pusillus* 5094
Mycobacterium, assay, umbelliferone derivatives, spectrophotometry 8276
Penicillium citreo-viride, plant cell wall degradation 5852
Penicillium digitatum, animal feed 4032
Penicillium vitale 824
Pseudomonas aeruginosa, aminoglycoside antibiotic dehydroxylation 6561
spore-lytic, *Streptomyces candidus* 5097
Streptomyces steffisburgensis, daunomycin 6634
thermophilic, thermostability 9351
Trichoderma viride, waste cellulose 2432
waste treatment 5786
wine 3356

Epacris impressa,

Phytophthora cinnamomi 8496

Ephedrine,

Aspergillus niger 3698
Aspergillus terreus 3698
degradation, *Arthrobacter globiformis* 900 8455

Ephelis oryzae,

pearl millet 1023

Epicillin,

antibacterial agent 2969
assay, chelatometry 6582
derivative, antibacterial agent 9050
dimerization 9080
Pseudomonas pseudomallei 8117
Salmonella paratyphi 559
Salmonella typhi 559

Epicoecum,

jute seed, seed dressing fungicide 2825

Epicoecum andropogonis,

sugarcane 3486

Epicoecum nigrum,

biological control, *Fusarium culmorum*, wheat 7202
biological control, *Fusarium culmorum*/Drechslera sorokiniana/Rhizoctonia solani, oat 1099 1099
biological control, *Fusarium culmorum*, oat 7202
biological control, *Rhizoctonia solani*, oat 7202
biological control, *Rhizoctonia solani*, wheat 7202
fat 1626
lodgepole pine dwarf mistletoe 4543
spores, plant leaves 7106
wheat 6233

Epicoecum purpurescens,

Minusops elengi 3615
wood 7242

Epidermolytic toxin,

Staphylococcus aureus, mouse assay/radial immunodiffusion/radioimmunoassay 4281

Epidermophyton,

allicin 7332
clotrimazole 528
diaryl-pyridyl-imidazole methanes 4671
imidazolyl-0,N-acetal derivatives 3704
triazole derivatives 2960

Epidermophyton floccosum,

acylase, 7-aminocephalosporanic acid derivatives 2207
Alpinia officinarum flavonoid 7348
alpha-aminolaurophenone/alpha-aminolaurophenone derivatives 5571
2-amino-1,3-dodecane derivatives 3702
antibiotics 1295
bis(propynyl)oxybenzenes 8075
5-chloro-7-iodo-8-hydroxyquinoline 2119
Curcuma zedoaria extract 3695
elastase 7608
imidazolylacetic acid amides 515
iodine disinfectant 8253
nitrothiazole derivatives 1269

Epidermophyton floccosum(Contd),

perdeuteriated fatty acids 1232
phacidin 10398
phenoxacetamido-nitrothiazole derivatives 2473
sulphatase 7608
swimming pool 2143
thiadiazolo-benzimidazole derivatives 8081
triazole derivatives 2960
undecylenic acid 2119
urease 7608

Epidermophyton Kaufmann-Wolf,

silicoorganic amines 530

Epidithiodiketopiperazine,

antibiotic A30641, *Aspergillus tamarii*,
antibacterial agent/antifungal agent 2241

Epidor,

Septoria tritici, wheat 9964

2-Epidithiostromin,

Cercospora smilacis 7065

Epoxidation,

1,7-octadiene, *Pseudomonas oleovorans*,
7,11-epoxy-1-octene, 1,11,7,11-diepoxyoctane 9482

7,8-Epoxy-1-octene,

Pseudomonas oleovorans, 1,7-octadiene
epoxidation 9482

Epoxy enamel,

funeral degradation 905

9,10-Epoxygeranylacetone,

Arthrobacter, squalene oxidation 6984

12,13-Epoxytrichothecene,

derivatives, *Fusarium* 975
Fusarium oxysporum, safflower seeds 7839
protein synthesis 3434

Eppley method,

zeaxalenone, corn 991

Epstein-Barr virus,

phosphonoacetic acid 1243

Equisetin,

Fusarium equiseti, antibacterial agent 1416

Eragrostis ciliaransis,

cereal chlorotic mottle virus 7117
Sclerophthora macrospora 4335

Eragrostis pectinacea,

Sclerophthora macrospora 4335

Eragrostis trichodes,

Maize dwarf mosaic virus 1007

Erremothecium ashbyii,

ribose reductase 3095

Ergoheptine,

ergot alkaloid 7677

Ergohexine,

ergot alkaloid 7677

Ergoline,

Claviceps, 5-fluor-D,L-tryptophan 5576
Claviceps, 5-fluorocinnole 5576

Ergosterol,

+ ubiquinone-9, *Candida tropicalis*/*Candida quilliermondii* 2537
Agaricus, structure, proton magnetic resonance spectroscopy 9440
Neurospora crassa, sterols 5647
Neurospora crassa, structure, proton magnetic resonance spectroscopy 9440
Saccharomyces cerevisiae 6920
Saccharomyces cerevisiae, structure, proton magnetic resonance spectroscopy 9440
Scleroderma aurantium 4033
Ustilago avenae, fluotrimazole 385
Ustilago avenae, triadimefon 385
yeast 60

Ergot,

alkaloid 7677
alkaloid, assay, fluorodensitometry 7676
animal feed 976
Claviceps 9467
Claviceps, 5-fluor-D,L-tryptophan 5576

Subject index

Ergot(Contd),

- Claviceps, 5-fluoroindole 5576
- Claviceps fusiformis, pearl millet 8643
- Claviceps microcephala, bajra 2692
- Claviceps microcephala, pearl millet 1021
- Claviceps purpurea 973 5126
- Claviceps purpurea, barley, barley stripe mosaic virus 2688
- Claviceps purpurea, barley, honeydew, antifungal agent 4323
- Claviceps purpurea, cereal 4317
- Claviceps purpurea, rye 1882 1883
- Claviceps purpurea, ryegrass 4317
- Claviceps purpurea, sugarcane 3486
- Claviceps purpurea, wheat 288 4317
- Claviceps purpurea, wheat, resistance 4450

Ergotamine,

- proline 8421

Eriobotrya japonica,

- bark extract, watermelon mosaic virus, marrow 5434

Eruca sativa,

- Fusarium oxysporum 4388

Erwinia,

- amino acid decarboxylases 12
- 4-benzoyloxy-2(1H)-pyridone 9009
- biological control, Erwinia amylovora, pear 5439
- estuarine water/sediment, petroleum degradation, numerical taxonomy 10109
- sugarbeet 9893
- sweet potato 8735

Erwinia amylovora,

- amino acid decarboxylases 12
- antibiotic A30641 2241
- apple 297 5343 5344
- apple, resistance 5343
- apple, streptomycin 2028
- crabapple, resistance 3553
- deoxycholate 8064
- dinitrothiophene derivatives 7987
- bis(diphenylaminomethane) derivatives 1265
- novobiocin 8064
- pear, bactericide 5439
- pear, biological control 5439
- pear, resistance 3554 8775
- pear, triazinedione derivatives 1119
- phage, apple 5342
- pyridine derivatives 2823
- quinolizidine-2-carboxylic acid derivatives 4694
- slimicide, industrial water system 3124
- sodium dodecyl sulphate 8064
- streptomycin resistance, apple/pear 2822
- thornless blackberry 8680

Erwinia aroideae,

- amino acid decarboxylases 12
- L-asparaginase 5042
- insecticide, Cydia pomonella/Porthetria dispar 891
- polygalacturonase 6913
- polygalacturonate methyl transeliminase 6913

Erwinia atroseptica,

- potato post-harvest decay 4445

Erwinia cancerogena,

- Norway spruce 8853

Erwinia carotovora,

- amino acid decarboxylases 12
- L-asparaginase 875 2524
- L-asparaginase, antitumour agent 8414
- bean 258 9754
- beech 1155
- carrot 310 1051
- celery 6259
- celery, cupric hydroxide 6259
- Chinese cabbage 1913
- corn 8633 8634 9785
- corn, bactericide 8827
- garlic juice 8987

Erwinia carotovora(Contd),

- insecticide, Cydia pomonella/Porthetria dispar 891
- lipopolysaccharide 5112
- Parthenium hysterophorus extract 2932
- pectin methylesterase/pectin transeliminase, squash 352
- phosphatidase C, potato 4102
- plant disease, antibiotics 7222
- endo-polygalacturonate trans-eliminase, potato 4102
- poppy 3520
- potato 4433 6259 7163 7164 8717
- potato post-harvest decay 351 4445 9920
- potato post-harvest decay, chloramphenicol 6224
- potato post-harvest decay, resistance 3543
- potato post-harvest decay, streptomycin 6324
- potato, resistance 9941
- potting compost 2055
- protease, potato 4102
- pyridine derivatives 2823
- tobacco, microwave irradiation seed treatment 9990

Erwinia chrysanthemi,

- carrot 310 1051
- pectate lyase 3301
- protein + lipopolysaccharide, Pseudomonas syringae, tobacco 3594
- sweet potato 7176

Erwinia herbicola,

- corn 9783
- endotoxin 5289
- paper mill water system, nitrogen fixation 1493

Erwinia horticola,

- amino acid decarboxylases 12
- insecticide, Cydia pomonella/Porthetria dispar 891

Erwinia mallotivora,

- Mallotus japonicus 3515

Erwinia nimipressuralis,

- 10027
- amino acid decarboxylases 12
- insecticide, Cydia pomonella/Porthetria dispar 891

Erwinia phytophthora,

- amino acid decarboxylases 12

Erwinia rhapontici,

- amino acid decarboxylases 12
- insecticide, Cydia pomonella/Porthetria dispar 891
- rhubarb 8724

Erwinia rubrifaciens,

- Persian walnut 8672

Erwinia salicis,

- cricket bat willow, electrical resistance 8862

Erwinia stewartii,

- corn, Chaetocnema pulicaria, carbofuran 8783
- corn, inoculation technique 9784

Erwinia toxica,

- insecticide, Cydia pomonella/Porthetria dispar 891

Erwinia tracheiphila,

- melon, resistance 3557

Erysipelas insidiosa,

- antibiotic A23187 2239

Erysipelothrix insidiosa,

- preservation 4703

Erysipelothrix rhusiopathiae,

- nitrofuryl-vinyl-anilino-quinazoline derivatives 6504
- quinazoline derivatives 7037

Erysiphe,

- ethylimidazole derivatives, plant protection 8814
- Labiatae 304
- plant disease 2658
- plant disease, resistance 3455

Subject index

Erysiphe(Contd),

- powdery mildew, plants 5298
- 1-propyl-1,2,4-triazolyl derivatives 2018
- soybean 2682
- triazino-benzimidazole derivatives, plant protection 3588
- triazolyl-O,N-acetal derivatives, plant protection 394
- Erysiphe aquilegiae,**
columbine 304
- Erysiphe betae,**
sugarbeet 5390 8731 8732
sugarbeet, fungicide 7205 7977
- Erysiphe carpophila,**
Weinmannia silvicola 2664
- Erysiphe cichoracearum,**
2664 4500
- 4-thiocyano-quinazolines 2024
- Aster 304
- Benincasa hispida 1002
- bottle gourd 304
- Canada golden rod 304
- Coccinia cordifolia 7146
- cucumber 4386
- cucumber, pyrazolium derivatives 3561
- cucumber, resmethrin 4500
- Cucumis sativus, pyrazolium derivatives 4511
- cucurbit, diphenyl pyrazolium derivatives 1114
- cucurbit, pyrazolium derivatives 2812
- Cucurbita 304
- Cucurbitaceae, fungicide 1101
- Dahlia pinnata 304
- fungicide, plant protection 7206
- okra 322 1069
- oxadiazolidine-3,5-dione derivatives 1115
- oxazolidine derivatives 3703
- Phlox drummondii 304
- Phlox paniculata 304
- Physalis peruviana 1002
- potato, fungicide 4493
- sneezewort 304
- sunflower 333
- triazole derivatives, plant protection 7207 7208
- winged bean 9772
- Zinnia, resmethrin 4500

Erysiphe graminis,

- 2-amidocarbonylthiobarbituric acids 2027
- barley, 2-aminopyrimidine derivatives 395
- barley, triazinone derivatives 1119
- cereal, diallate 269
- fungicide, plant protection 7206
- imidazolidine-1,4-dione derivatives 2135
- orchardgrass 7875
- oxazolidine derivatives 3703
- pea 6190
- pea leaf roll virus, pea 7113
- pyrimidine derivatives 2020
- red fescue 7875
- ryegrass 285
- triazole derivatives, plant protection 7207 7208
- wheat, 2-aminopyrimidine derivatives 395

Erysiphe graminis avenae,

- oat 6334
- oat, resistance 6334 7949 8770

Erysiphe graminis hordei,

- barley 252 1863 1864 1865 3474 4324 4325 4326 5317 7879 8627 8628 9774 9775 9776
- barley, diphenyl pyrazolium derivatives 1114
- barley, imidazo-pyrimidine derivatives 4512
- barley, iodine staining 8594
- barley, pyrazolium derivatives 2812 3581 4511
- barley, resistance 7195 8627 8767
- barley, triazole derivatives 7209
- barley, triflorine seed treatment 2826
- barley + wheat 8620

Erysiphe graminis hordei(Contd),

- conductive staining, scanning electron microscopy 761
- pea, pisatin, Erysiphe pisi 8788
- wheat, resistance 9934
- Erysiphe graminis tritici,**
barley 9775
- barley, fungicide 378
- Erysiphe graminis hordei, barley 5317
- plant disease 2654
- wheat 289 2661 4315 4451 5335 5336 5337
- wheat, calixin 4502
- wheat, diphenyl pyrazolium derivatives 1114
- wheat, fungicide 1101
- wheat, imidazo-pyrimidine derivatives 4512
- wheat, pyrazolium derivatives 2812 3581 4511
- wheat, resistance 1094 1095 3550 4451 4452 5336 5337

Erysiphe heraclei,

- carrot 1002 7906 7907
- Umbelliferae 7906

Erysiphe lagerstroemiae,

- crapemyrtle, resmethrin 4500

Erysiphe monardae,

- Monarda didyma 8707

Erysiphe pisi,

- pea 4306 9767
- pea, pisatin 8788

Erysiphe polygoni,

- Aristotelia serrata 2664
- bean, phthalimide derivatives 2815
- black gram 3548
- black gram, resistance 3548
- carrot 4376 4377
- cowpea, resmethrin 4500
- dinitrothiophene derivatives 7957
- oxadiazolidine-3,5-dione derivatives 1115
- pea 2676 2677
- pea, resistance 2677
- pea, sulphur fungicide 8812
- phasemy bean, resistance 2775
- sugarbeet 8731 9894
- sugarbeet, sulphur fungicide 1108

Erysiphe polyphaga,

- cucumber 4291

Erysiphe ranunculi,

- 2664
- Delphinium cultorum 304
- Paeonia officinalis 304

Erysiphe rubicola,

- Rubus squarrosus 2664

Erysiphe trifolii,

- Robinia pseudoacacia 1002

Erysiphe umbelliferarum,

- carrot 1911
- coriander 1911
- cumin 1911
- dill 1911
- fennel 1911

Erythrocyte,

- frozen, bacteria 1293
- lyophilised chick, haemagglutination/haemagglutination-inhibitors, viruses 1006
- mycobacillin 10387
- sensitized, herpes simplex virus haemagglutination 4007

Erythrocytic diagnostic agent,

- Pseudomonas aeruginosa lipopolysaccharide 3331

Erythrocytic H-diagnostic agent,

- Salmonella flagellar antigen 7684

Erythromycin,

- 10221
- + cefamandole, Pacteroides fragilis 8129
- + colistin, antibacterial agent, Surgical Simplex P Radiopaque bone cement 3011
- + protein SF127, Pseudomonas aeruginosa 8335
- Actinomyces erythreus 6604
- Actinomyces israelii 7369

Subject index

Erythromycin(Contd),

alpha-haemolytic *Streptococcus* 4728
 anaerobic bacteria 2994
 anaerobic bacteria, antibiotic sensitivity testing 2165
 anhydro-, animal feed 1772
 antibacterial agent 2190 6546
 antibacterial agent, antibiotic sensitivity testing 5035
 antibiotic sensitivity testing 5625
 antibiotic sensitivity testing, blood culture 551
 antibiotic 3F-637 3061
 antitoxins 2595
Arachnia proionica 7369
 assay 9033
 assay, *Bacillus stearothermophilus* 4719
Bacillus coagulans, lysine 6831
Bacillus megaterium, lysine 6831
Bacteroides fragilis 2166
 beta-haemolytic *Streptococcus* 5633
 bile system microflora 2995
Botrytis cinerea 4669
 centrifugal extractor 4775
 chicken feed, assay 77E4
Chlamydia trachomatis 10242
 cladinose/methylcladinose, thin-layer chromatography 6605
Corynebacterium minutissimum 1306
Corynebacterium parvum 1306
 dental plaque/dental caries 747
 enterobacteria 9040
 Enterobacteriaceae 6557
Escherichia coli 1304
Francisella tularensis 1305
Haemophilus parainfluenzae 8115
 melanin 1305
Micrococcus luteus, antibiotic sensitivity testing 8112
 milk, assay, *Sarcina lutea*/*Bacillus subtilis* 5206
 milk, thin-layer chromatography 1722
 minibag/minibottle antibiotic admixtures, stability 9030
Mycoplasma 5436
Neisseria gonorrhoeae 2997 8118
 ophthalmic ointment, sterility testing 1294
Pasteurella multocida 6548
Propionibacterium acnes 1306 5630
Propionibacterium avidum 1306
Propionibacterium granulosum 1306
Proteus 1304
Pseudomonas aeruginosa 1304
 resistance, *Staphylococcus* 4641
 resistance, *Staphylococcus aureus* 5533 7302
 resistance, *Staphylococcus hyicus* 9045
 resistance, *Streptococcus agalactiae*, R factor 3672
 resistance, *Streptococcus faecalis* 10127
 resistance, *Streptococcus faecalis*, R factor 10121
 resistance, *Streptococcus* group D, R factor 8962
 resistance, *Streptococcus pyogenes* 10128
 resistance, *Vibrio cholerae* 2100
Salmonella 1307
 stable solution 10322
Stachylococcus 1304 1308
Staphylococcus anaerobiosis 9044
Staphylococcus aureus 2223 3002
Staphylococcus hyicus 3002 9045
Streptococcus 3751
Streptococcus group B 3194
Streptococcus group D 5634
Streptococcus mutans 552
Streptococcus viridans 5634
Streptomyces erythreus,
 3-O-(2,6-dideoxy-alpha-L-arabino-hexopyranosyl)-erythronolide B 5689

Erythromycin(Contd),

Streptomyces erythreus,
 2-O-(2,6-dideoxy-alpha-L-ribo-hexopyranosyl)-erythronolide B 5689
 sulphocationite sorption 3790
Ureaplasma urealyticum 5626
 vitamins/nicotinamide/p-aminobenzoic acid 2991
Erythromycin A,
 8-hydroxy-, cyclic 11,12-carbonate 3043
 9-hydroxy-, cyclic 11,12-carbonate 3044
 anhydro-, cyclic carbonate N-methyl iodide, structure 3045
 resistance, *Staphylococcus aureus* 7310 7311
cyclic-Erythromycin A 6,9-hemifacetal carbonate,
 L-aspartate, antibacterial agent 5688
Erythromycin A cyclic 11,12-carbonate,
 L-aspartate, antibacterial agent 5687
Erythromycin A oxime,
 esters 4777
Erythromycin B,
 anhydro-, antibacterial agent 3046
Erythromycin B oxime,
 esters 4777
Erythromycin D,
 917
Bacillus subtilis 8167
Erythromycin stearate,
 thin-layer chromatography 4776
Erythromycylamine,
 cladinose/methylcladinose, thin-layer chromatography 6605
Erythronolide A oxime,
 3-O-oleandrosyl-5-O-desosaminyl-,
Streptomyces antibioticus, antibacterial agent 5690
Erythronolide B,
 3-O-(2,6-dideoxy-alpha-L-arabino-hexopyranosyl)-, *Streptomyces erythreus* 5689
 2-O-(2,6-dideoxy-alpha-L-ribo-hexopyranosyl)-, *Streptomyces erythreus* 5689
Escherichia,
Actinomyces recifensis lytic enzyme 2480
 antitoxins 10241
 cephalosporins 2178
 chicken + soybean patties 7764
 drinking water 7497
 egg white 7009
 glycosidases 3171
 high molecular weight closed circular DNA 4977
 municipal water 7497
 Pathotec system 7540
 penicillins 2178
 rosamicin monoesters 5760
 sodium acetate medium 7556
 tests 1565
 beta-2-thienylalanine assay 4937
Escherichia coli,
 4930
 1-(4-(alkoxyphenoxy)-butyl)-1-ethyl-piperidine imide 2977
 2-isopropoxynaphth-1-yl penicillin + cephaloridine/cephalothin 556 557
 3,5-diaryl-4-(substituted sulphonamidobenzeneazo) pyrazoles 5558
 3-chloro-2-oxazolidinones 7322
 3-chloro-tetrahydro-1,3-oxazines/oxazolidinones 1267
 3-deoxybutirosin A 2253
 3-deoxydehydrostreptomycin 6594
 3-methyl-5-aryl-4-(substituted sulphonamidobenzeneazo) isoxazoles 5554
 5-amino-3,5-dideoxybutirosin A 6629
 5-amino-5-deoxybutirosin 1409
 5-hydroxy-1-[(5-nitro-2-furanyl)methylene]amino-2,4-imidazolidinedione 7321
 6-(alpha-3-acyl-ureidoacetamido) penicillanic acids 7410

Subject index

Escherichia coli(Contd),

6beta-acylamino-6-alpha-alkoxy penicillins 2173
 7-(2-aminomethylphenylacetamido)-3-(1-carboxymethyltetrazol-5-ylthiomethyl)-3-cepham-4-carboxylic acid-4-carboxylic acid 7398
 7beta-acylamino-7-alpha-alkoxy cephalosporins 2173
 actin-like protein 6846
 actinomycin antibiotic 70591 1389
 acylase, 7-aminocephalosporanic acid derivatives 2207
 acylase, (beta-methyl-3H)-6-amino-penicillanic acid 2219
 adenosine triphosphatase 9 10 5046
 adenosine triphosphatase, atebirin 5561
 adenosylmethionine decarboxylase, decarboxylated adenosylmethionine 5916
 ADP-glucose pyrophosphorylase 6853
 ADP-glucose synthase 6854
 agar droplet method 3165
 air, bactericide R206
 air, ionization 7463
 D-alanine carboxypeptidase 1A, penicillin 11
 alcoholic chlorhexidine 8252
 alcoholic chloroxylenol 8252
 aliphatic diol diesters 3720
 L-5-alkylthiomethylhydantoin-S-oxide 5556
 alpha-ethyl-alpha-aminopropylpenicillin 1364
 alpha-sulphocephalosporins 5659
 amikacin 2189 3758 7427
 amikacin/gentamicin/kanamycin/sisomicin/tobramycin 7384
 aminocarbonylthioates 1263 1264
 amino acid sulphilimines 2111
 amino acid transport, cephaloridine 9062
 amino acid transport, cephalothin 9062
 aminoglycoside 2-adenylyltransferase, aminoglycoside antibiotics assay 2183
 aminoglycoside 3-phosphotransferase II 14 6483
 aminoglycoside antibiotics 1319 3755
 aminoglycoside antibiotics, salt antagonism 4742
 aminoglycoside-phosphotransferase 8351
 aminopeptidase II 1638
 aminotrioxobutyrilarginine A 2254
 ammonium/potassium isobutyrate 1257
 AMP-activated pyruvate kinase 8394
 ampicillin, electron microscopy 1360 4722
 ampicillin resistance 1205 3676
 ampicillin, sensitivity test broth/urine 3009
 ampicillin + sisomicin 7382
 amylomaltase 2455
 analgesic agents 6495
 anthracycline antibiotic reduction 1383
 anthracycline antibiotics + ultraviolet radiation/mitomycin c 5747
 antibacterial agent 469 4693 5752
 antibacterial agent/antibiotic 1214
 antibacterial agent/antibiotics 1304
 antibacterial agent, non-woven fibres 8040
 antibiotic 333-25 1387 1388
 antibiotic 792 9114
 antibiotic A16884 6619
 antibiotic A-26771 1390
 antibiotic AB-74 1391
 antibiotic AV290 alkylated derivatives 1394
 antibiotic B371 5706
 antibiotic E-43 5705
 antibiotic EM 123 3058
 antibiotic EM49 4788
 antibiotic EM-49 tetramidino derivatives 5707
 antibiotic G-52 1397 1398
 antibiotic G-418 1400
 antibiotic No. K-73 3803

Escherichia coli(Contd),

antibiotic NAC-501 3060
 antibiotic P-3355 2244
 antibiotic resistance transfer, sewage coliforms 6472
 antibiotic sensitivity testing 1301 4718 4720 4034 90:5 10233
 antibiotic sensitivity testing, replicate stamper 10226
 antibiotic TA 6621
 antibiotic U-48266 4739
 antibiotic X-372A 1403
 antibiotic XK-90 5710
 antibiotics 2993 2995 3671 6557 6565 7368 9040
 antibiotics, electrical polarisability 7365
 antibiotics, marsh bacteria 3050
 antibiotics resistance 4632 6474 6475 7297
 antibiotics resistance, chicken 8947
 antibiotics resistance, R factor, tetracycline 6490
 antibiotics + vitamins/nicotinamide/p-aminobenzoic acid 2991
 K99 antigen 6952
 antihistamine 3549
 antiseptic 3137
 arylsulphonylacetic acid hydrazide derivatives 5985
 L-asparaginase 875 2524 5945 8412 9454
 L-asparaginase, antitumour agent 8414
 L-asparaginase, immobilisation 226
 assay, antibiotic mixture 2990
 assay, Limulus lysate test 10551
 automated aseptic sampling + storage system 4916
 azaserine, phenylalanine 10353
 azetidinone derivatives 3687
 azlocillin 8155
 Bacillus subtilis antibiotic 9028
 bacteriocin typing 7546
 bacteriostat/bactericide 1256
 bacteriostat, ciaper 5817
 barbituric acid derivatives 2140
 beef 6077
 benzazepine derivatives 3636
 benzene derivatives 2131
 benzisothiazolin-3-one derivatives 534
 benzisothiazolinone + quaternary ammonium compound 4687
 benzo-1,2,4-triazines 1225
 benzotriazine-1,4-dioxide derivatives 2091 2118
 N-benzylidenediphenylamine-2-carboxylic acid hydrazide derivatives 10165
 beta-aminoketones 2108
 blood culture medium, microcalorimetry 10523
 brewery, hygiene 8444
 5-(bromoacetyl)-uracil 4660
 butylated hydroxy anisole, food preservative 958
 cadmium 10086
 Camembert cheese 9567
 epsilon-caprolactam + alkanediamine derivatives 2149
 epsilon-caprolactam + alkanediamines 2318
 epsilon-caprolactam + N-alkyl-propylene-diamine reaction products 8102
 epsilon-caprolactam + N-alkylalkylene diamine reaction product 3126
 carbenicillin + gentamicin 7382
 carbenicillin, sensitivity test broth/urine 3009
 carbenicillin + sisomicin 7382
 carbonamidoquinoxaline-di-N-oxide derivatives 1226
 carcinogen assay 6774
 catalase, hydrogen peroxide 2934
 cefaclor 10272

Subject index

Escherichia coli(Contd),

cefactor/cephalexin 10271
 cefamandole 3772
 cefamandole, anaerobiosis 6547
 cefazafur 7401
 cefazolin 2194
 cefazolin, anaerobiosis 6547
 cefazolin, sensitivity test broth/urine 3009
 cefoxitin 3773
 cefoxitin/cefuroxime/cephalothin 5656
 ceftezole 1333 5654
 cell envelope, ultracytometry, electron microscopy 10537
 cephaecitric +
 amikacin/ceftamandole/sisomicin/tobramycin 6555
 cephalixin/cephradine/cefactor 6578
 cephaloridine, electron microscopy 4722
 cephaloridine resistance 8050
 cephalosporin antibiotic FR10612 2187
 cephalosporin-binding proteins 5034 6847
 cephalosporin derivative 1328 1329
 cephalosporin derivative FR10624 5661
 cephalosporin derivatives 570 571 573 1313 1316 1334 1335 1337 1338 1339 1340 1341 1342 1343 2198 2239 2211 2212 3006 3017 3018 3019 3768 3769 5665 6569 7394 8140 8142 8143 9069 9070
 cephalosporin R-sulphoxides 5637
 cephalosporin SQ 67,590 5662
 cephalosporinase 8158
 cephalosporinase, carbenicillin 8156
 cephalosporins 555 587 1324 2174 2194 2195 2201 3016 3766 4754 9060
 cephalothin 2196 5557
 cephalothin, anaerobiosis 6547
 cephalothin/cefamandole/cefoxitin 1325
 cephalothin-resistant,
 cefoxitin/cephalosporin EL-5786 10275
 cephalothin, sensitivity test broth/urine 3009
 cepham derivatives 2200
 cephamycin derivatives 6575
 chalcones 7318
 cheese whey fermentation, galactose 8489
 chelocardin anilino derivatives 3064 5726
 chemostat culture, glucose 10561
 chicken carcass, irradiation 9674
 chicken manure, composting 8222
 chloramphenicol 10261
 chloramphenicol + gentamicin 10261
 chloramphenicol + hexamethylenetetramine 2226
 chloramphenicol resistance 8050
 chloramphenicol resistance, chloramphenicol acetyltransferase, R factor 8960
 chloramphenicol N-trifluoroacetyl analogue 6601
 chlorhexidine 10152
 5-chloro-2-(2,4-dichlorophenoxy)phenol, toilet bowl 4891
 5-chloro-2-(2,4-dichlorophenoxy)phenol, toilet bowl cleanser 6730
 chlorpromazine/levopromazine/promethazine 8980
 chlorpromazine resistance 6471
 chlorotetracycline resistance 5541 8964
 chorismate mutase/prephenate dehydratase 4077 4078
 chuanoxinmycin 10363
 cinnamyl phenols 132
 citrate synthase 4079
 clindamycin 10261
 clindamycin + gentamicin 10261
 cloxacillin + amoxycillin 8149
 colicin C111 4043
 colicin E-K260 5029
 colicin D-CA23 5029
 colicin E1 5030
 colicin E2 4042

Escherichia coli(Contd),

colicin K 8179
 colicin K, antibacterial agent 6632
 coliphage, containment system, hepatitis virus centrifugation zonal, air hygiene 2288
 colistin derivatives 9102
 comminuted turkey meat 6073
 contact lens sterilising solution 1282
 continuous culture 1568
 cooked hamburger 9575
 copper, intensive care unit 2347
 cottage cheese 3394
 coumarin derivatives 1227
 cultural medium, Lactobacillus bifidus growth promoting substance 7683
 culture 774 7557
 cyanide resistance 2536
 cyclic dimedone derivatives 1266
 cycloalkyl-4-oxoquinoline-3-carboxylic acid derivatives 2141
 cysteine desulphhydrase, L-cysteine 6829
 3-deoxy-D-arabinoheptulosonate-7-phosphate synthase 833
 3-deoxy-D-arabinoheptulosonate-7-phosphate synthetase 4082 4083 4084
 2-deoxystreptamine-aminoglycoside derivatives 6560
 D-3,6-diaminohexanoic acid
 2-(carboxymethyl)-2-methylhydrazine 2151
 diaveridine 10149
 dibromoisocyanuric acid, hand disinfection 1518
 dichlorocyanurate silver complexes 10147
 dicloxacillin + ampicillin 8149
 dihalopyrrolyl di-/trihalomethyl ketones 2943
 dihydrofolate reductase 5060
 dihydrofolate reductase, high-voltage electrophoresis 6886
 dihydrofolate reductase,
 sulphamethoxazole-trimethoprim 4659
 dihydrolipoamide dehydrogenase, molecular weight 7658
 dihydrolipoamide transacetylase, molecular weight 7658
 dihydrostreptomycin, salt antagonism 4742
 dimethylaminoethyl-alpha-phenyl-cinnamate derivatives 6502
 bis(diphenylaminomethane) derivatives 1265
 disinfectant 6727
 disinfectant resistance 1192
 DNA-cytosine methylase 5059
 DNA-dependent RNA polymerase, structure 7659
 DNA,
 Freon-12/Freon-13/Genetron-23/methane/nitrous oxide 10139
 DNA, molecular weight, fluctuation spectroscopy 2362
 DNA, polyacrylamide gel electrophoresis 6938
 DNA polymerase 835
 DNA, tetracycline 5698
 Dnp-A p-polymerase, rifamycin derivatives 4773
 N-dodecyl-diethanolamine 3694
 doxycycline, calorimetry 5699
 doxycycline resistance 5542
 doxycycline 7313
 drinking water, Auto Analyzer method 7729
 drinking water, filtration system 8240
 econazole 2974
 enantio-[1-valine]-malformin 3692
 endonuclease I, cold shock method 9387
 endotoxin, assay, spectrophotometry 9724
 endotoxin, Limulus amoebocyte lysate test 8576
 endotoxin, Limulus test/radioimmunoassay 4273
 endotoxin, plasma, spectrophotometry 3440
 enterochelin 884 8332

Subject index

Escherichia coli(Contd),

enterocin 1415
 enterotoxin 2646 52R4 6153 9734 9735
 enterotoxin, food 2558
 enterotoxin, food poisoning 1713
 enterotoxin, infant mouse assay 5290
 enterotoxin, lincomycin induction 5291
 enterotoxin, medium 6152
 enterotoxin, micro-assay 2643
 enterotoxin, passive immune haemolysis assay 7088
 enterotoxin, rat perfusion assay 4277
 enterotoxin, serological assay 9733
 enterotoxin, Vero cell culture assay 7089
 cyclic-erythromycin A 6,9-hemiacetal
 carbonate L-aspartate 5688
 estuarine water 1504
 ethanol 3138
 faeces 3893
 fatty acid oxidising enzyme complex 6A87
 fish hatchery water, ultraviolet irradiation 1503
 flavones 7318
 flower vase water, potted plants, hospital hygiene 10489
 flucloxacillin + amoxycillin 8149
 fluorine-labelled RNA, F-19 nuclear magnetic resonance spectroscopy 5989
 5-fluorouracil 6503
 food 909 3373 6027 6988
 food, antibiotic resistance 4633 6028
 formic acid 8317
 N-formylmethionyl-tRNA hydrolase 26
 fortimicin A 8181
 fosfomycin 2259
 fosfomycin resistance 8965
 Freon-12/Freon-13/Genetron-23/methane/nitrous oxide 10139
 fresh/frozen seafood 9585
 fresh water, McConkey broth 3877
 frozen beef patties 9575
 frozen erythrocytes 1293
 frozen fruit/vegetable 3406
 frozen raw breaded shrimp 9591
 Ftorafur 6503
 furoazepinone nitro-derivatives 4665
 galactose-binding protein 5033
 alpha-galactosidase 841 1651
 beta-galactosidase 7624
 beta-galactosidase, low-lactose milk/milk product 7738
 beta-galactosidase, penicillin G immunoassay 4762
 garamine derivative 8182
 garlic 10143
 gentamicin 2189 3758 5684 9090 10257 10261
 gentamicin 1-N acyl derivatives 5643
 gentamicin adenine mononucleotide transferase, gentamicin assay 8363
 gentamicin aminocyclitol analogues 6599
 gentamicin, anaerobiosis 6547
 gentamicin C1 derivatives 2225
 gentamicin C1a derivatives 5685
 gentamicin C2 derivatives 617
 gentamicin, electron microscopy 4722
 gentamicin + prednisolone 1371
 gentamicin resistance 8050
 gentamicin, salt antagonism 4742
 gentamicin/tobramycin/carbenicillin resistance, R factor 8052
 gentamicin/tobramycin/sisomicin/netilmicin 2186
 germicide 6742
 glutamic decarboxylase test 4929
 glutaraldehyde 6525
 L-glyceraldehyde 3-phosphate 4656
 sn-glycerol-3-phosphate acyltransferase 3281
 glycerophosphate acyltransferase 7629
 gramicidin A/gramicidin A analogues 4804
 ground beef 175 176 7015 9575

Escherichia coli(Contd),

Haemophilus influenzae bactericidal factor 6844
 hand, disinfection 6735
 heat-damaged, stacked plastic dishes 7558
 heavy metals resistance 7293
 hospital food 126
 hydrazide derivatives 5557
 hydrazino-pyridine derivatives 2139
 hydrogen 9476
 9-hydroxyellipticine 1229
 ice cream 3387 3388
 immobilisation 803 1620
 immobilised, 6-aminopenicillanic acid 9077
 immobilised L-asparaginase, antitumour agent 4123
 immobilised, aspartase 9364
 immobilised, aspartase, L-aspartic acid 3231
 immobilised, beta-galactosidase 4087
 immobilised L-glutaminase, antitumour agent 4123
 immobilised, lactase 3289
 immobilised/soluble Penicillin amidase, phenylmethylsulphonyl fluoride 7644
 industrial product pollution 4348
 infant food 2562
 injured, milk/dairy product, recovery medium 145
 intestinal, Lactobacillus lactis pig feed 9624
 iodine disinfectant 8253
 iodopolymers 1258 1259
 Iranian sausage 185
 iron oxidation 4613
 irradiated starch 10140
 irradiated starch extracts 5546
 gamma-irradiation, food sterilisation 9662
 isoleucyl-tRNA synthetase, affinity chromatograph, blue dextran-Sepharose 5074
 isothiazolopyridinone derivatives 2975
 juvenimicins 7433
 K99 antigen 5135
 K99 antigen, Minca medium 5843
 K antigen, immunodiffusion 5842
 K antigen, immunoelectrophoresis 5842
 K antigen, indirect haemagglutination 5842
 kanamycin B derivatives 6596
 kanamycin derivatives 3785
 kanamycin, electron microscopy 4722
 kanamycin resistance 8050
 kasugamycin guanidino derivatives 3808
 kasugamycin, R factor 10274
 kojic acid analogues 1223
 L-form, blood culture 4939
 beta-lactam antibiotic 1310
 beta-lactam antibiotics 6553
 beta-lactamase 6900
 beta-lactamase, cephoazolate + penicillin G 10252
 beta-lactamase, clavulanic acid 8176
 beta-lactamase, double disc method 3288
 beta-lactamase, isoelectric focusing 8368
 beta-lactamase, Streptomyces beta-lactamase inhibitor 3347
 lake water, membrane diffusion chamber 4880
 laterosporamine 2261
 leucine/isoleucine/valine-binding protein, structure 7605
 lipoamide dehydrogenase, immobilisation 8371
 lipopolysaccharide 1682
 lividomycin A derivatives 6641
 lividomycin B derivatives 1422 6641
 luncheon meat 9578
 lyophilisation preservation 542
 lysine 5895
 lysine assay, food 6992
 lysine/ornithine/arginine degradation, Nessler's reagent 4936
 lysis-filtration blood culture 10524
 meat/hide 4210

Subject index

Escherichia coli (Contd),

mecillinam 3811 4768
 mecillinam/6-aminopenicillanic acid/ampicillin 6583
 medermycin 4812
 membrane-associated
 phosphatidylglycerophosphate synthetase,
 affinity chromatography 5967
 mercapto-quinoxaline derivatives 504
 mercurated sulphonamides 1262
 mercury 10086
 mercury resistance 8050
 methoxychlor degradation 8458
 1-methyl-2-nitro-5-vinylimidazole 8096 8097
 mezlocillin 5672
 miconazole 2974
 microbial degradation 8458
 milk 139
 milk, Auto Analyzer method 7729
 milk, pasteurisation 7800
 milk, spray-drying 7736 7737
 milking machine/milking plant 7727 7728
 minocycline 1382
 moroanocin 5910
 MOKLUC numeric system 1567
 morpholino-N-acetohydrazide hydrazones 2152
 mutagen assay 6776 10538
 NADP⁺-dependent isocitrate dehydrogenase 8367
 NADP⁺-specific isocitrate dehydrogenase,
 affinity chromatography 1655
 nalidixic acid 4663
 naphthridine-3-carboxylic acid derivatives 8983
 naphthridine derivatives 2945
 naphthridinomycin 4814
 nebramycin 2265
 negamycin analogues 642 5749
 neomycin, Coulter Counter 6595
 netilmicin 1429 3814 10392
 netilmicin +
 carbenicillin/cefazolin/chloramphenicol/clin
 damycin 1428
 netilmicin/gentamicin/amikacin 4741
 netilmicin/gentamicin/tobramycin 10393
 netilmicin/gentamicin/tobramycin/amikacin 2185 5750
 netilmicin/gentamicin/tobramycin/amikacin/sis
 omicin 2184
 netilmicin/gentamicin/tobramycin/sisomicin 5751
 netilmicin/sisomicin 3815
 nitrate reductase 6905
 nitrate reductase, immobilisation 8375
 beta-nitroethanol derivatives 8984
 nitrofurantoin derivatives 1220
 nitrofuryl-vinyl-anilino-quinazoline
 derivatives 6504
 nitroimidazole derivatives 1270
 nitroimidazolyl-acetylpropenoic acid
 derivatives 2136
 4-nitrophenyl mercapto acetic acid hydrazide 7327
 nitrophenyl-sulfanilamidopyrazole derivatives 8070
 N-nitroso-N-methylcarbamate mutagenicity
 assay 3965
 N-nitrosodimethylamine 8433
 nitrothiazole derivatives 1269
 nocardicin A 1434
 nocardicin B 7440
 D-norvalyl-D-alanine 7328
 novobiocin selective medium 6785
 nucleotide phosphotransferase, affinity
 chromatography 9423
 nuts, methyl bromide 8553
 O antigen, immunodiffusion 5842
 O antigen, immunoelectrophoresis 5842
 O antigen, indirect haemagglutination 5842
 ormethoprim 10146

Escherichia coli (Contd),

outer membrane lipoprotein, chloramine T
 iodination labelling 8274
 oxamicetin 3075
 oxazolidine derivatives 5553
 oxime esters 2148
 8-oxo-4-thia-1-azabicyclo[4.2.0]oct-2-ene-2-
 carboxylic acid 8122
 oxolinic acid 528 5563
 n-oxypropyl thiol aluminium derivatives 74
 oxytetracycline 1352
 oxytetracycline resistance 1210
 oyster 4216
 P15 restriction endonuclease 8360
 packaged minced meat 2583
 Panaeolus antibiotics 6545
 pantothenate synthetase 35
 paper mill water system, nitrogen fixation
 1493
 paraldol 3721
 paromomycin derivatives 3764
 penicillanic acid derivative 4768
 penicillanic acid derivatives 595 606 3040
 4765 6591
 penicillin acylase, assay, phenylacetic acid
 5963
 penicillin amidase 8377 8378 8379 9424
 penicillin amidase, 6-aminopenicillanic acid
 598
 penicillin amidase,
 7-phenylacetamidodeacetoxycephalosporanic
 acid hydrolysis 5984
 penicillin amidase, immobilisation 8380 8381
 penicillin amidase, + penicillin,
 6-amino-penicillanic acid 4763
 penicillin amidase, penicillin G 4100 4101
 9076
 penicillin-binding proteins 4761 5034 5908
 6647
 penicillin/cephalothin + rolitetracycline
 3754
 penicillin deacylase, 6-aminopenicillanic
 acid 9086
 penicillin derivatives 1313 1316 1350 1352
 1353 3006 6589 6590 7408
 penicillin + EDTA, endonuclease I, cyclic
 phosphodiesterase 9386
 penicillin R-sulphoxides 5637
 penicillin resistance 3676
 penicillin resistance, beta-lactamase, R
 factor 8954
 penicillin, sensitivity test broth/urine
 3009
 penicillinamidase, penicillin G hydrolysis
 600
 penicillins 555 2174 3777
 peptidoglycan 2426
 peptidyltransferase, turimycin 9158
 phage T1, formaldehyde 5523
 phage T1, resistance, formaldehyde 5523
 phage T2, formaldehyde 5523
 phage T2, resistance, formaldehyde 5523
 phage T3, formaldehyde 5523
 phage T3, resistance, formaldehyde 5523
 pharmaceutical cream, peracetic acid
 sterilisation 2979
 1,10-phenanthroline + nalidixic
 acid/piromidic acid 10146
 phenoxyacetamido-nitrothiazole derivatives
 2973
 2-phenyl-1,2,3-triazole-4-carboxylic acid
 hydrazide 7327
 2-phenyl-1,2,3-triazole-4-carboxylic
 acid-sulphonyl hydrazide 7327
 phenyl-indole derivatives 6530
 phosphatase, zinc, magnesium 6910
 6-phosphonogluconate dehydrogenase, *Bacillus*
 stearothermophilus 6-phosphonogluconate
 dehydrogenase 41

Subject index

Escherichia coli(Contd),

phosphonomycin + streptomycin/penicillin
G/ampicillin 6558
photoreactivating enzyme 9427
pig carcass, antibiotics resistance 7299
pig drinking trough 3145
piperazinoethyl-dihydroindolo-benzazepine
derivatives 2948
piperazinyl-xoxpyrido-pyrimidine derivatives
2946
piperidino-N-acetohydrazone hydrazones 2152
plant essential oil 5548
plant extracts 10141
plasmid, DNA 3336
polyadenylase 4105
polymyxin B 7415
polymyxin B derivatives 9102
polysaccharide K antigen, agarose
electrophoresis + Cetavlon precipitation
3178
polytropic diagnostic tuber 9259
povidone iodine 2935
preseasoned comminuted turkey, microorganisms
9574
preservatives 2157
prompt lactose-fermenting, test scheme 5838
prophage induction test, carcinogen 6775
protease I 2495
protoplast 3177
pyrano-indole derivatives 7349
pyrazole derivatives 1222 5557 5559
pyridazine-2-oxide derivatives 3932
pyrimidine derivatives 502
pyrrole-2-carboxamide derivatives 3139
pyrrolidine derivatives 9006
delta1-pyrroline-5-carboxylate reductase
3314
pyruvate dehydrogenase 9433
pyruvate dehydrogenase, molecular weight
7658
pyruvate kinase, proflavine 10163
pyruvate oxidase 3315
quaternary ammonium compounds 2146 2319 3890
quaternary ammonium phenolate 2907
quaternary ammonium salt 470
quinoline-3-carboxylic acid derivatives 3628
quinoline derivatives 2140
quinolizine-2-carboxylic acid derivatives
4694
quinolizine derivatives 8100
quinoxaline-2-carboxamide-1,4-dioxide
derivatives 8982
quinoxaline derivatives 5598
R factor, antibiotic resistance, sewage
treatment 2305
R factor, antibiotics resistance 4629
R factor transfer, pipemidic acid 3670
rancinamycin I/rancinamycin II/rancinamycin
III/rancinamycin IV 5759
rapid KCH-test 3170
refrigerated/frozen food 4186
resistance, antibiotics 3671
resistance, antibiotics, polyamine 2098
resistance, doxymetetracycline 7313
resistance, proflavine/penicillin 2101
resistance, tetracycline 7313
resistance, trimethoprim + sulphamide 3669
respiration, electrode monitoring 3953
respirator aerosol sampler 10490
restriction endonuclease 7621
ribofuranosyl-1,2,3-triazole derivatives
3727
ribonuclease N 5973
ribonucleotidyl transferase 6922 6923
ribopolynucleotide-synthesizing enzyme 47
ribosome-associated phosphatidylserine
synthetase, affinity chromatography 5968
ribosome, dihydrostreptomycin 1320
ribosome, paromomycin 1320
ribosome, RNA + protein 5988

Escherichia coli(Contd),

ribosome, viomycin 1444
rifampicin 9100
rifampicin resistance 8054 9100 10126
river water 4476 4879
RNA, heat treatment 5116
rRNA, hybridization-competition assay 4948
RNA polymerase 1675
RNA polymerase, cysteine/methionine 1676
RNA polymerase, tirandamycin 2272
tRNA, selenation 7674
S-alkylthiuronium halides 6527
S-triazinyl aryl/alkyl sulphones 1215
N-salicylsulphonyl amino acid derivatives
3683
scanning transmission electron microscopy
6753
sea water 725 4887 9227
sea water, McConkey broth 3877
selective medium 3162
D-serine dehydratase 6925
serotyping 10562
sewage, antibiotic + inorganic metal
resistance 2925
sewage, McConkey broth 3877
shellfish 4217
Shigella, 4-chloro-2-cyclopentylphenyl
beta-D-galactopyranoside medium enrichment
8285
silkworm larva haemolymph 7315
sisomicin 2189 3758 4225 6651 6652
sisomicin 1-N acyl derivatives 3643
sisomicin/gentamicin 3757 7387
slimicide, industrial water system 3124
soil, Rhizobium 3646
soluble laundry bag, hospital hygiene 7518
sphaeroclast 4029
spices 1761
4-spirocycloalkylamino 5-nitropyrimidine
derivatives 2947
streptomycin A 5763
Streptomyces antibiotics 9025
streptomycin 10257
streptomycin, lipids 9053
streptomycin resistance 1194 8050 8956 8957
streptonigrin-transition metal complex 9465
substituted sulphonylacetamido cephalosporins
2204 2205 2206
sugars/sugar alcohols 5593
sulphacysteine 528
sulphadiazine + antibiotics, resistance 8945
sulphadiazine derivatives 6498
sulphaomethoxine 10149
sulphadimethoxine-trimethoprim/ormethoprim/di
averidine 10149
sulphamethoxazole-trimethoprim 2940 2941
5550 7319
sulphamoxole-trimethoprim 2940
sulphamoylquinoline-dione derivatives 5562
sulphanilamide-metal complexes 10148
sulphaquinoxaline 10149
sulphaquinoxaline-trimethoprim/ormethoprim/di
averidine 10149
sulphonamide derivatives 6528
sulphonamide pyrazole derivatives 6500
sulphonamide sensitivity testing 6497
sulphonylamino acid derivatives 6499
sulphonylhydrazide derivatives 5557
suspensions 10527
swimming pool water 3899
swine faeces,
culture/isolation/identification medium
4938
synchronous culture 3975 10517
taurolin 4667
tellurite/tellurate resistance, plasmid 3668
terizidone 650 5555
terminal riboadenylate transferase 4108
tetracycline 621 7313
tetracycline, calorimetry 5699

Subject index

Escherichia coli(Contd),

tetracycline derivatives 622
 tetracycline resistance 5542 8050 10130
 tetracycline resistance, chicken feed 9630
 tetracycline resistance, lipid 7314
 tetracyclines 3054 8172
 tetracyclines, microcalorimetry 2233
 tetrahydro-cyclopropa(b)naphthalenes 4692
 tetrahydrocarbazole derivatives 10162
 Thalictum rugosum alkaloid 2144
 thallium 4689
 thiazinium derivatives 3725
 thienamycin 651
 thienoazepinone nitro-derivatives 4665
 thienopyridine-carboxylic acid derivatives 5C3 2944
 thiocyanate xanthate derivatives 2972
 thiolacetic acid derivatives 3723
 thiopeptin 2271
 4-thiouracil 6653
 thymidylate synthetase, affinity chromatography 1678
 ticarcillin, sensitivity test broth/urine 3009
 ticarcillin + tobramycin 9052
 ticarcillin/antibiotic BL-P1654/carbenicillin 605
 tobramycin 528 2189 3078 3758 4827 6658
 tobramycin, anaerobiosis 6547
 tobramycin resistance 8958
 transaminase B 865
 transport system 5837
 triazolo-pyridazine derivatives 2117
 Tribissen (sulphadiazine + trimethoprim) 2939
 trifluoromethyl phenyl-3-(3',5'-dicyanophenyl)urea 2140
 triglyceride fatty acids 5888
 trimethoprim 10149
 triorganotin compounds/triorganolead compounds 2129
 triphenyl tetrazolium chloride indicator plate 6757
 tritiated endotoxin, Limulus amoebocyte lysate test/rabbit pyrogen assay/complement-activation assay 9725
 tryptophanase, adenylate cyclase, Vibrio cholerae enterotoxin 9743
 tubaic acid 3682
 tuba faeces, oxytetracycline feed 7042
 tyrosine decarboxylase/histidine decarboxylase 8493
 UDP-glucose dehydrogenase 4112
 ultraviolet irradiation, continuous-flow system 7559
 ureidoacetamido-penicillin derivatives 8161
 uridine phosphorylase 7667
 beta-ursolic acid 6532
 enantio-[1-valine]malformin 4655
 vanilla slices 8514
 Vega disinfectant 9232
 verdamicin 1 562
 verdamicin 1-N acyl derivatives 5643
 vertical plane cinemicrography specimen housing unit 1544
 veterinary topical products 2970
 violet red bile agar 6770 6771
 vitamin B6 9474
 vitamin D3 10187
 wastewater, solar ultraviolet radiation 2303
 water 3876 3893
 water, food industry 5795
 water, membrane filter chamber 6720
 water, ultrafiltration 4871
 water/wastewater, dye-sensitized photooxidation disinfection 9221
 water/wastewater, glutamate decarboxylase test 3112
 xanthosine 5-monophosphate-amidotransferase 4114

Escherichia coli(Contd),

xylostin 654
 zinc 10086
Escherichia coli phage,
 plaque formation inhibitor, desdanine 5730
Escherichia coli phage MS-2,
 water, foam fractionation 2325
Escherichia coli vaccine,
 6663 6667
 cattle enteric colibacillosis 7461
Escherichia freundii,
 3-deoxydehydrostreptomycin 5594
 endo-beta-galactosidase 4088
Escherichia intermedia,
 azetidinone derivatives 3687
 cephalosporin derivatives 1339
Esculin,
 hydrolysis, bacteria 1562
Esculin-bile agar,
 Enterobacteriaceae 9272
Ester,
 beer 9509
 Fusarium nivale, wheat 9962
 Saccharomyces carlsbergensis, sugar fermentation 6970 6971
 Saccharomyces cerevisiae, sugar fermentation 6970 6971
 Septoria nodorum, wheat 9962
Esterase,
 Aureobasidium pullulans, paint film degradation 4177
 Bacillus, cephalosporin p-nitrobenzyl ester de-esterification 6573
 fungal, cephamycin derivatives 10283
 fungal, cephen-4-carboxylic acid 7400
 fungal, nitrophenyl ester fungicide, plant protection 7981
 microbial, cephalosporins 8132
 Micropolyspora faeni 25
 Mucor mieheii, cheese 924
 Saccharomyces cerevisiae, beer 97
 Staphylococcus, agar plate tests 2417
alpha-Esterase,
 Aspergillus flavus, aflatoxin 5045
 Aspergillus parasiticus, aflatoxin 5045
beta-Esterase,
 Aspergillus flavus, aflatoxin 5045
 Aspergillus parasiticus, aflatoxin 5045
Esterification,
 racemic alcohol, Candida cylindracea lipase 8369
Etamycin,
 Streptomyces griseoviridis 5732
Ethambutol,
 assay, Mycobacterium smegmatis 10133
 Mycobacterium farcinicum 4648
 Mycobacterium phlei 4648
 Mycobacterium smegmatis 4648 6492
 Mycobacterium tuberculosis 4648 4649
Ethane,
 Acremonium 483
 Methylosinus trichosporium, acetone 2095
Ethanol,
 + sulphite waste liquor, yeasts 9322
 alcoholic beverage, gas chromatography 102
 antibacterial agent 6738
 antibacterial agent/disinfectant 3138
 Aspergillus, protein/biomass 2428
 bacterial, milk, gas-liquid chromatography 919
 Botrytis, protein/biomass 2428
 bronchofiberscope disinfection 5807
 Candida utilis, biomass 804 805
 Candida utilis biomass, multi-stage tower fermentor 6824
 Candida utilis protein 4055 5038 5905
 culture, Candida utilis 1
 culture medium, Candida utilis 8294
 fermentation 6013
 fermentation, molasses 5165

Subject index

Ethanol (Contd),

- Fusarium, protein/biomass 2428
- microbial culture, gas chromatography 5882
- microorganisms, cellulose 5881
- Penicillium, protein/biomass 2428
- Saccharomyces carlsbergensis, microelements 8436
- Saccharomyces cerevisiae 6012
- Saccharomyces cerevisiae, cellulose waste 2544
- Saccharomyces cerevisiae, frozen dough 3403
- skin disinfectant, antimicrobial agent 10494
- Trichoderma, protein/biomass 2428
- Ustilago nuda 6377
- vaccinia virus 6736
- variola virus 1242
- yeast 101
- yeast culture 781
- yeast protein 3240 5905
- yeast, Trichoderma viride enzyme, waste cellulose 2432

Ethanolamine ammonia-lyase,

- Clostridium 3270

Ethazol,

- Phytophthora cinnamomi, Lawson cypress 8843

Ethephon,

- + fungicides, Alternaria solani, tomato 8805
- + fungicides, Alternaria tenuis, tomato 8805
- + fungicides, Colletotrichum, tomato 8805

Ether,

- mycophage 3182

Ethidium bromide,

- + ampicillin, Salmonella typhimurium 4766
- Aspergillus nidulans 7583
- Botrytis cinerea 4669

Ethion,

- Fusarium graminearum, zearalenone 2636

Ethionamide,

- Mycobacterium farcinicum 4648
- Mycobacterium phlei 4648
- Mycobacterium smegmatis 4648
- Mycobacterium tuberculosis 4648

Ethirimol,

- Helminthosporium sativum, barley 4328 6205

1,2-bis(5-Ethoxy-2-benzisidazolyl)-1,2-ethandiol,

- antiviral agent, persistent infection cell culture test 3711

5-Ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole,

- Phytophthora parasitica, radiata pine 4548
- Phytophthora parasitica, tobacco 9972
- Pythium ultimum, larkspur 2805

N-p-Ethoxyphenylbiguanide,

- antiviral agent 1253 6520

Ethoxyquin,

- aflatoxin B₁, thin-layer chromatography 231
- apple post-harvest decay 5396
- Nectria galligena, apple post-harvest decay 5396

S-Ethyl [3-dimethylamino)propyl]carbamothioate monohydrochloride,

- Phytophthora parasitica, tobacco 9972

Ethyl-alpha-D-glucoside,

- sake 7702

Ethyl-benzisidazole carbamate,

- Botrytis cinerea, grapevine 5425

S-Ethyl dipropylthiocarbamate,

- Trichoderma viride, biological control, Sclerotium rolfii, cotton 6354
- Trichoderma viride, biological control, Sclerotium rolfii, white clover 6354

Ethyl linoleate,

- champagne yeast 897

Ethyl picolinate,

- Bacillus cereus 8977

O-Ethyl S-S-diphenyl dithiophosphate,

- Pyricularia oryzae, rice 5419

Ethyl salicylate,

- fungi, wheat seed 407

Ethylamine,

- aromatic, Micrococcus perditreus/Micrococcus conglomeratus amino acid decarboxylase 13

Ethylene,

- bean, Uromyces phaseoli 9758
- Colletotrichum gloeosporioides, tangerine post-harvest decay 5401
- culture, Candida utilis 1190
- Fusarium oxysporum 6959
- lemon post-harvest decay 347
- microbial, soil 2861
- microbial, soil, water potential 8014
- Mucor hiemalis, soil 2861
- Pseudomonas solanacearum 2092
- Pseudomonas solanacearum, tomato 3538
- soil bacteria 427 6461
- soil fungi 6424
- soil microorganisms 7252
- Verticillium albo-atrum, tomato 1962 6361

Ethylene dibromide,

- partial soil sterilant, Plasmodiophora brassicae, crucifer 5424

Ethylene glycol,

- diesters, antibacterial agent/antifungal agent 3720

Ethylene imine,

- thiophosphamide derivatives, influenza virus 5591

Ethylene-maleic acid linear copolymer,

- + Penicillium duponti protease 2497

Ethylene oxide,

- apiary sterilisation, American foulbrood disease 2980
- honeycomb sterilisation, Bacillus larvae 6537
- mycotoxin neutralisation, antifungal agent 4253
- sterilisation 537 4697 9011
- sterilisation, Bacillus larvae, apiary 3738
- sterilisation, Bacillus subtilis 538
- sterilisation indicator 536
- sterilisation, packaged load 1278

Ethylenediamine,

- N-trimethylbenzyl-, disinfectant 3906
- Ethylenediaminetetraacetate, microbial degradation, soil, sediment 7250

Ethylimidazole,

- derivatives, fungicide, plant protection 8814

2-Ethylpyridine,

- degradation, soil coryneform 3364

ETMT,

- Pythium ultimum, larkspur 2805

Etridiazol,

- Phytophthora fragariae, strawberry 2807

Eubacterium,

- antibiotics 2994
- blood agar medium 3956
- blood culture 768
- cephalosporins 3010
- penicillins 3010
- swine faeces, culture/isolation/identification medium 4938

Eubacterium lentum,

- antibiotic sensitivity testing 2165

Eubacterium ruminantium,

- rumen, ATP 6782

Eucalyptus,

- leaf extracts, antifungal agent 10166

Eucalyptus agglomerata,

- Aulographina eucalypti 8855
- Mycosphaerella 8855
- Phytophthora cinnamomi 8855
- Readeriella mirabilis 8855

Eucalyptus alba,

- Cylindrocadium quinqueseptatum 4535

Eucalyptus baxteri,

- Phytophthora cinnamomi 8596

Subject index

- Eucalyptus bigalerita**,
Cylindrocladium quinqueseptatum 4535
- Eucalyptus clavigera**,
Cylindrocladium quinqueseptatum 4535
- Eucalyptus confluens**,
Cylindrocladium quinqueseptatum 4535
- Eucalyptus crebra**,
Cylindrocladium quinqueseptatum 4535
- Eucalyptus ferruginea**,
Cylindrocladium quinqueseptatum 4535
- Eucalyptus globulus**,
Armillaria 8007
Armillaria mellea 6397
- Eucalyptus gummifera**,
Pisolithus tinctorius 409
- Eucalyptus lirata**,
Cylindrocladium quinqueseptatum 4535
- Eucalyptus maculata**,
preservative-treated, soft rot 10020
- Eucalyptus oblique**,
Armillaria 8007
Armillaria mellea 6397
Eucalyptus oblique, Phytophthora nicotianae 8008
Phytophthora 6398
Phytophthora cambivora 8008
Phytophthora cinnamomi 8008, 8495
Phytophthora citricola 8008
Phytophthora citrophthora 8008
Phytophthora cryptogea 8008
Phytophthora drechsleri 8008
Phytophthora megasperma 8008
- Eucalyptus oligantha**,
Cylindrocladium quinqueseptatum 4535
- Eucalyptus patellaris**,
Cylindrocladium quinqueseptatum 4535
- Eucalyptus phenicea**,
Cylindrocladium quinqueseptatum 4535
- Eucalyptus pilularis**,
Aulographina eucalypti 8855
Mycoasphaerella 8855
Phytophthora cinnamomi 8855
Readeriella mirabilis 8855
- Eucalyptus regnans**,
mycorrhiza 7231
preservative-treated, soft rot 10020
- Eucalyptus sieberi**,
Phytophthora 6398
Phytophthora cambivora 8008
Phytophthora cinnamomi 8008
Phytophthora citricola 8008
Phytophthora citrophthora 8008
Phytophthora cryptogea 8008
Phytophthora drechsleri 8008
Phytophthora megasperma 8008
Phytophthora nicotianae 8008
- Eucalyptus umbrararrensii**,
Cylindrocladium quinqueseptatum 4535
- Euchlaena mexicana**,
Pseudomonas rubrilineans 1886
- Eugenia jambolana**,
Phomopsis pustulata 1836
- Eugenol**,
Aspergillus parasiticus, aflatoxins 10142
- Eumycin**,
iturin A, antifungal agent 5743
- Euofacin**,
yeasts 2170
- Euparen**,
Lophodermium pinastri, pine 1151
- Euphorbia pulcherrima**,
extracts, antibacterial agent 10141
- Eurocidin**,
methyl ester 10266
- Eurotiales**,
2-substituted-4(R)-hydroxy-cyclopentane-1,4-dione 4140
- Eurotium amstelodami**,
stored rapeseed 6326
- Eurotium repens**,
stored rapeseed 6326
- Eutypa armeniaca**,
apricot 3493 7866 9872
apricot, benoryl 7983
apricot, plant protection 9827
grapevine 3493 7866 9872 9871
- Evacuation/filling apparatus**,
automatic, anaerobic jar 3154
- Everninomycin-2**,
structure 2258
- Everninomycin B**,
anaerobic bacteria 2994
- Everninomycin D**,
everninomycin-2 2258
- Evolvulus alsinoides**,
Albugo 9864
- Excrement**,
pigeon, microorganisms, store degradation 4183
- Exfoliatin**,
Staphylococcus aureus, mouse assay/radial immunodiffusion/radial immunocassay 4281
- Exhaust gases**,
4711
- Exo-enterotoxin**,
Eacillus cereus, aggregate haemagglutination 5292
- Exobasidium vexans**,
tea, BAS 3050 F 1109
tea, electron microscopy 3521
- Exocortis virus**,
Citrus 8867
- Exopolysaccharuronase**,
Rhizoctonia bataticola, okra 1070
- Exotoxin**,
Bacillus thuringiensis, insecticide, Galleria mellonella, beercomb 3442
Bacillus thuringiensis, C-mitotic agent 2653
bacterial 1813
Clostridium perfringens, proteinase/collagenase/elastinase 8581
Corynebacterium diphtheriae, mammalian cells 5257 5288
Pseudomonas aeruginosa 4282 6155
Pseudomonas aeruginosa, mammalian cells 5288
Streptococcus pyogenes 246
thuringiensin, Eacillus thuringiensis, structure 8579
- Exotoxin A**,
Pseudomonas aeruginosa 7090 7091
Pseudomonas aeruginosa, peptide 7857
- Exotoxin C**,
pyrogenic, Streptococcus pyogenes 7098
- Exudate**,
Streptococcus mutans 1683
- Eye**,
microflora, soft contact lens 4911
- Eye drop**,
preservative, Pseudomonas aeruginosa 5606
preservative, Staphylococcus aureus 5606
- Eyespot**,
Cercospora herpotrichoides, wheat 4315
Helminthosporium sacchari, bajra 1024
Pseudocercospora herpotrichoides, wheat 291 4353
- Eyespot lodging**,
Pseudocercospora herpotrichoides, wheat 4352
- Ezomycin**,
structure, carbon 13-nuclear magnetic resonance spectroscopy 10367
- Ezomycin A1**,
structure 6636

Subject index

Ezomycin A2,
structure 6636

Ezomycins,
636

F-2 toxin,
see also Zearalenone
animal feed 972 3427
Fusarium culmorum, goose feed 3429
Fusarium culmorum, medium 6144
Fusarium zeae, chicken/Japanese quail feed 1769
Gibberella zeae, medium 6144
high-pressure liquid chromatography/gas chromatography/thin-layer chromatography 242
4-methoxy-benzene-diazonium fluoroborate method 99C

F-3 toxin,
Fusarium moniliforme, corn 9790

Fabraea maculata,
hawthorn, benomyl 10008

Fabric,
antibacterial agent, antibiotic U-48266 4789
antimicrobial agent 1182
bactericide/fungicide, isothiazole derivatives 1268

Facial eczema,
Pithomyces chartarum 973
Pithomyces chartarum, earthworm, pasture 2067
Pithomyces chartarum, fungicide, pasture 2004
sporodesmin, animal feed 972

Faeces,
anaerobic bacteria, urease assay 8271
animal, Clostridium perfringens 4564
bat, Microsporium gypseum 6423
bat, Scopulariopsis brevicaulis 6423
bat, Trichophyton mentagrophytes 6423
bat, Trichophyton terrestre 6423
coliform 3893
Escherichia coli 3893
human, Shigella sonnei, selenite F isolation medium 5853
Salmonella, selenite F broth 2386
Streptococcus 3893
swine, anaerobic bacteria,
culture/isolation/identification medium 4938
turkey, bacteria, oxytetracycline feed 7042

Fagopyrum cymosum,
Puccinia fagopyricola 997

Fagus,
fungi/fungal diseases 1155
mycorrhiza 4528 7230
Nectria galligena, apple 7137

Fagus crenata,
fungal degradation, ultraviolet/fluorescence microscopy 5466

Fagus grandifolia,
mycorrhiza, Cenococcum graniforme 3599

Fagus sylvatica,
bark, fungal degradation 4552
bark, microbial degradation 2829
Cryptococcus fagi 2847
wood degradation, forest soil 6401
wood, Serpula lacrimans 7243
wood veneer, fungi 4549

Fairy ring disease,
Agaricales, cyanide 2536
Marasmius oreades, cyanide 2536

Fall armyworm,
cell culture, Autographa californica nuclear polyhedrosis virus 4010

False floral smut,
Claviceps purpurea + Epicoccum andropogonis, sugarcane 7446

False smut,
Claviceps oryzae-sativae, rice 7887
Ustilaginoides virens, rice, resistance 2703

Farinaceous food product,
chilled, microbiology 5234

Farinaceous product,
hygiene, Salmonella, Staphylococcus aureus 10500

Farlowia mollis,
extracts, antiviral agent 8593

Farmer's lung,
actinomycetes, mouldy hay, sedimentation chamber 3163

Farnesol,
oxidation, Arthrobacter 6924

cis-Farnesol,
champagne yeast 897

trans-Farnesol,
champagne yeast 897

Fasciculines,
Hypholoma fasciculare 6423

Fat,
animal, microbiology 166
Epicoccum nigrum 1626
pork, lipolysis, Micrococcus 930
rendering plant, sterilisation 9452

Fatty acid,
alkane, Pseudomonas NAD-dependent alkane dehydrogenase 6857
alkane, Pseudomonas NAD phosphate-dependent alkane hydroxylase 4857
alpha-halogenated, antibacterial agent/antifungal agent, detergent 1255
antifungal agent 1231
Aspergillus flavus, aflatoxins 97C1
Bacteroides fragilis endotoxin 7848
Candida 107, continuous culture 6006
Candida boidinii, glucose/hydrocarbon 5906
Candida, continuous culture 6007
Candida stellatoidea, sodium chloride 9324
Candida tropicalis, glucose/hydrocarbon 5906
Candida utilis, glucose/hydrocarbon 5906
Epicoccum nigrum 1626
Escherichia coli triglyceride 5888
fuel tank microorganisms 4617
fungicide, animal feed/plant protection 2794
fungistat 10167
long-chain, mycobactericide 491
microbial culture, gas chromatography 5882
microorganisms 10500
Cudemansiella mucida, mucidin 4813
perdeuteriated, antifungal agent 1232 1233
phenyl-imidazole, derivatives, antifungal agent 8C78
Saccharomyces cerevisiae, glucose/hydrocarbon 5906
Salmonella enteritidis cell wall lipid, stable gas-liquid chromatography column 6787
Scleroderma aurantium 4033
silage 7044
silage fermentation 2601
Staphylococcus aureus, cerulenin 6631
Streptococcus mutans, gas chromatography 5889
Streptomyces kitasatoensis, antimicrobial agent 5890
Streptomyces, polyene macrolide antibiotic 4748
Tricholome portentosum oil 6827
Vibrio cholerae lipopolysaccharide 5987
volatile, rumen microorganisms, pivalic acid 3416
wort/beer/yeast, assay 7510

Fatty acid oxidising enzyme complex,
Escherichia coli 68E7

Subject Index

Fatty acid synthetase,

Saccharomyces cerevisiae, beta-ketoacyl synthetase, assay 9408

Feathery mottle virus,

sweet potato 4423

Feeds,

aflatoxins, Japanese quail, egg 6138
 animal 5881 6101 8552
 animal, 3-deoxybutirosin A 2253
 animal, 6-aminopenicillanic acid derivatives 10303
 animal, Actinomycetales 4996
 animal, S-adenosylmethionine/methylthioadenosine, yeasts 871
 animal, aflatoxin 3431
 animal, aflatoxin B1, thin-layer chromatography 231
 animal, aflatoxin B1, thin-layer chromatography, ethoxyquin 6132
 animal, aflatoxins 4259 8561
 animal, aflatoxins, high-performance liquid chromatography 5263
 animal, aflatoxins, thin-layer chromatography 230
 animal, anhydroerythromycin 1772
 animal, animal waste treatment 5714
 animal, antibacterial agent, 3-amin-1,2,4-benzotriazine-1,4-di-N-oxide 10158
 animal, antibacterial agent/antifungal agent, nitroimidazolyl-pyrazole derivatives 9625
 animal, antibacterial agent, carbonamidoquinoxaline-di-N-oxide derivatives 1226
 animal, antibacterial agent, imidazole derivatives 3684
 animal, antibiotic A2041 derivatives 200
 animal, antibiotic A204I derivatives 10338
 animal, antibiotic A-2315 3799
 animal, antibiotic AV290 201 3800
 animal, antibiotic AV290 alkylated derivatives 1394
 animal, antibiotics 6102
 animal, antibiotics, assay 9033
 animal, antibiotics, high voltage electrophoresis 9626
 animal, antifungal agent, methulosaniline 5245
 animal, antimicrobial agent, methulosaniline 2603
 animal, Aspergillus niger, oxalic acid 8521
 animal, assay 5270
 animal, Aureobasidium pullulans protein, straw hydrolysate 4054
 animal, Bacillus licheniformis product 195
 animal, bacitracin 9104
 animal, bacitracin, assay, Micrococcus flavus 4231
 animal, bacitracin, turbidimetric assay, Streptococcus faecalis 949
 animal, bacterial protein 9344
 animal, bactericide/fungicide, hexamethylene tetramine 2602
 animal, barley grain, Fusarium, zearalenone 2638
 animal, barley, mycotoxins 5262
 animal, barley/wheat grain, preservation, ammonia 1797
 animal, bovine manure silage 7791
 animal, Candida lipolytica 5240
 animal, Candida protein 1765
 animal, Candida tropicalis, alkane 4189
 animal, Candida utilis biomass, fermentation industry slops 5886
 animal, Candida utilis protein 8342
 animal, Candida utilis protein, ethanol 4055
 animal, carcass meal, Salmonella 9622
 animal, cephalosporin derivatives 1313 1314 1315 2209 3004 3006 3007 8124 9071

Feed(Contd),

animal, cephalosporins 2174 2203 3016 3767
 animal, cereal, aflatoxin B1 4255
 animal, cereal, aflatoxin B2 4255
 animal, cereal, aflatoxin G1 4255
 animal, cereal, aflatoxin G2 4255
 animal, cereal, ochratoxin A 4255
 animal, cereal, ochratoxin B 4255
 animal, cereal, sterigmatocystin 4255
 animal, cereal, zearalenone 4255
 animal, Chaetomium cellulolyticum protein, wheat straw 9347
 animal, chlortetracycline, turbidimetric assay, Staphylococcus aureus 950
 animal, Clostridium 947
 animal, Clostridium perfringens, toxin 7781 7782
 animal, corn, aflatoxins, ammoniation/assay 9704
 animal, corn, aflatoxins, minicolumn test 5271
 animal, corn fermentation, aflatoxins 9707
 animal, corn, Fusarium moniliforme, mycotoxins 9790
 animal, corn, Fusarium moniliforme, zearalenone 7840 7841
 animal, corn, Fusarium toxins 9722
 animal, dairy industry wastewater 9185
 animal, deoxynivalenol, Fusarium roseum 2620
 animal, diacetoxyscirpenol, Fusarium roseum 2620
 animal, Diplodia gossypina cellulose waste degradation 9610
 animal, dried potato pulp, preservation, propionic acid/ammonia 4233
 animal, dry-milled corn products, aflatoxins 9706
 animal, dry-milled corn products, zearalenone 9706
 animal, efrotomycin 4800
 animal, Enterobacter liquefaciens/Serratia atypique, dairy effluent treatment 3115
 animal, ergot 972
 animal, F-2 toxin 972
 animal, fermented colostrum 7780
 animal, fermented straw 9612
 animal, fermented waste 3413
 animal, fermented whey 7779
 animal, fish silage 8522
 animal, fishmeal, Salmonella 1771
 animal, forage, fungal post-harvest decay 8747
 animal, fungicide 2794
 animal, gentamicin C1 derivatives 2225
 animal, gentamicin C1a derivatives 5685
 animal, gentamicin C2 derivatives 617
 animal, Geotrichum candidum protein 198
 animal, heat-dried/Lyophilised Saccharomyces cerevisiae protein 7726
 animal, Hydrogenomonas 8519
 animal, Hydrogenomonas protein 6098
 animal, hygiene 9235
 animal, ipronidazole, Sphaerophorus necrophorus 1773
 animal, irradiation sterilisation 208
 animal, Lactobacillus lactis 182
 animal, Lactobacillus protein 6837
 animal, Lactobacillus, waste deodorisation 1487
 animal, lasalocid sodium, assay, Bacillus subtilis 5244
 animal, lincomycin residues, animal tissues, assay 2227
 animal, Methylomonas methanolica protein, methanol 9341
 animal, microbial biomass 8516
 animal, microbial count 3941
 animal, microbial protein 910 945 1619 1766 2596 2597 8337

Subject index

Feed(Contd),

animal, microbial protein, cattle manure 9615
 animal, microbial protein, cellulose waste 5898
 animal, microbial protein, hydrocarbon 3664
 animal, microbial protein, lignocellulose waste 3242
 animal, microbiological assay 199
 animal, microflora, *Streptomyces fradiae* fradiase 43
 animal, microorganisms 5240 6101
 animal, microorganisms, methanol 820
 animal, monoacetoxyscirpenol, *Fusarium roseum* 2620
 animal, mouldy grain 3415
 animal, mycotoxins 1799 3427 8554 9688 9689
 animal, nitrofuryl-vinyl-anilino-quinazoline derivatives 6504
 animal, *Paecilomyces varioti* protein 8342
 animal, peanut meal, aflatoxins 7062
 animal, peanut meal, aflatoxins, *Aspergillus niger*/*Aspergillus flavus* 5273
 animal, peanut meal, aflatoxins, formaldehyde + calcium hydroxide 228
 animal, penicillanic acid derivatives 6591
 animal, penicillin derivatives 594 1313 1314 1315 1349 1357 1358 3004 3006 3007 3037 3038 6589 6590 7405 7406 7407 7408 8124
 animal, penicillins 2174
 animal, *Penicillium digitatum* enzymes 4032
 animal, pleuromutilin derivatives 10400
 animal, preservation 957 9650
 animal, preservative 6116
 animal, preservative, cinnamyl phenols 532
 animal, producing plant, hygiene 9235
 animal, propionic acid + formic acid
 preserved cod viscera silage 9648
 animal, quinazoline derivatives 7037
 animal, refusal factor 972
 animal, *Rhodotorula glutinis* protein 6035
 animal, *Rhodotorula glutinis*, wastewater 4228
 animal, rumen bacteria preservation 7356
 animal, rye/wheat/triticale nutritive value, assay, *Aspergillus flavus* 5855
 animal, *Saccharomyces cerevisiae* protein 8342 8471
 animal, *Saccharomyces fragilis* protein, whey 3381
 animal, *Saccharomycetaceae* protein 912
 animal, *Salmonella*, propionic acid preservation 7046
 animal, *Salmonella*, timed-release capsule method 6030
 animal, silage 2600 5246 5247 6105 7787 7788 9632 9644
 animal, silage, additives 9642
 animal, silage, aflatoxins 7061
 animal, silage, bacteriostat, sodium nitrite + hexamethylene tetramine 1774
 animal, silage, caproic acid preservation 9645
 animal, silage, dry matter content 7043
 animal, silage, fatty acid 7044
 animal, silage, formalin/fatty acids 2601
 animal, silage + fungal cellulase 9634
 animal, silage, lactic acid assay 9633
 animal, silage, *Lactobacillus*, grass-fructosane degradation 6106
 animal, silage, *Lactobacillus plantarum*, lysine 5205
 animal, silage, preservation 7045
 animal, silage, preservation, sodium metabisulphite 955
 animal, silage, preservative, *Bacillus subtilis* enzymes 3418
 animal, silage, ryegrass 207
 animal, silage, silo 9638
 animal, slobber syndrome 972

Feed(Contd),

animal, sporodesmin 972
 animal, T-2 toxin 972
 animal, tetracycline, bones 165
 animal, thermoradiated sewage sludge 3104
 animal, thienamycin 651
 animal, *Tilletia* 9621
 animal, tree bark, microbial fermentation 7489
 animal, *Trichoderma viride* protein, corn residues 9611
 animal, virginiamycin 2275
 animal, vomitoxin 972
 animal, waste 2556
 animal, waste treatment 1476 2313 5786
 animal, wet brewer's grains silage, preservation 4232
 animal, wet milled corn products, aflatoxins, chromatography 8566
 animal, wheat fermentation, aflatoxins 9707
 animal, yeast protein, hydrocarbon 133
 animal, yeast protein-vitamin concentrate 3241
 animal, zearalenone, *Fusarium roseum* 2620
 animal, zearalenone, high-pressure liquid chromatography/gas chromatography/thin-layer chromatography 242
 buffalo, rumen bacterium protein, digestibility 6096
 calf, *Facillus licheniformis* product 195
 calf, yeast cell wall polysaccharide, alkane 6097
 cattle, aflatoxin, milk/milk product 225
 cattle, bacterial protein, mesquite 197 822
 cattle, chloramphenicol 7039
 cattle, colostrum 7034
 cattle, colostrum, fermentation 7035
 cattle, colostrum, preservation 9649
 cattle, corn + poultry litter silage 9637
 cattle, corn silage 9636
 cattle, *Cytophaga johnsonae* protein, mesquite 196
 cattle, fermented colostrum/preserved colostrum 7036
 cattle, fermented mastitic milk, antibiotics 4229
 cattle, peanut cake, fungi/mycotoxins 2773
 cattle, *Pleurotus ostreatus* protein, lignocellulosic waste degradation 10448
 cattle, potato silage 9641
 cattle, propionic acid-preserved corn 209
 cattle, *Pseudomonas* protein, wood mesquite 4227
 cattle, silage 1775 6110 6111 6112 6113 6114 6115 7790 9647
 cattle, tomato pulp waste silage 6104
 cattle, wheat silage 9639
 chicken, aflatoxins, egg 6137
 chicken, antibacterial agent 9627 9628
 chicken, antibiotics 9627 9628
 chicken, antibiotics, residues 7783
 chicken, antibiotics, resistance, *Escherichia coli* 8947
 chicken, bacitracin, residues 4230
 chicken, brewers' yeast 9618
 chicken, chlortetracycline, *Mycoplasma synoviae* 951
 chicken, citrus waste activated sludge 1764
 chicken, erythromycin, assay 7784
 chicken, flavomycin + clopidol 952
 chicken, flavomycin, residues 4230
 chicken, *Fusarium roseum*, T-2 toxin 7836
 chicken, *Fusarium tricinatum*, T-2 toxin 7836
 chicken, lambdamycin 9629
 chicken, lyophilised lactic acid bacteria/lyophilised propionic acid bacteria 6094
 chicken, 3-(1-methyl-5-nitro-2-imidazolyl-methylidene amino)-2-oxazolidinone, *Pasteurella* 2114

Subject index

Feed(Contd),

chicken, *Methylophilus methylotrophus*,
methanol 9617
chicken, microbial protein 7778
chicken, monensin, assay, *Streptococcus*
faecalis 7785
chicken, 3-nitro-10 + clopidol 952
chicken, penicillin 202
chicken, *Pseudomonas methylotrophia* protein,
methanol 2598 9616
chicken, *Salmonella*, chicken carcass 948
chicken, spiramycin, residues 4230
chicken, T-2 toxin 7836 7837 7838
chicken, tetracycline, bacterial resistance
9630
chicken, thiopeptin, assay, *Acholeplasma*
laidlawii 7786
chicken, *Torula utilis* protein 5242
chicken, virginiamycin, residues 4230
chicken, zearalenone 1769
deer, silage 6107
dog, *Bacillus cereus* 1770
dog, *Salmonella enteritidis* 5623
duck, yeasts 9619
fish, oxytetracycline,
sulphuriazine/trimethoprim 7038
fish, *Salmonella* 1527
goat, rumen bacterium protein, digestibility
6C96
goose, F-2 toxin 3429
goose, T-2 toxin 3429
insect, fungicide 6117
Japanese quail, *Aspergillus oryzae* fermented
soybean 946
Japanese quail, zearalenone 1769
mussel, bacteria 8520
pet, preservation 1776
pig, antibiotic A-4696 624
pig, bambermycins, *Salmonella typhimurium*
2C5
pig, barley grain, preservation, citral
caproate/allyl caproate, *Aspergillus*
candidus 9908
pig,
chlortetracycline/sulphamethazine/penicillin
, *Salmonella typhimurium* 206
pig, corn, *Fusarium roseum* 3414
pig, corn, *Gibberella zeae* 3414
pig, fermented pig waste 3872
pig, *Lactobacillus lactis*, intestinal
Lactobacillus/Escherichia coli 9624
pig, lincomycin + spectinomycin/tylosin +
sodium arsanilate, swine dysentery 954
pig, *Methylophilus methylotrophia* 6100
pig, microbial protein 1766 5241
pig, microbial protein, methanol 6099
pig, virginiamycin 9631
pig, yeast protein, paraffin 1767
pigeon, Viton, pigeon farm hygiene 3925
poultry, antibiotic A-2315, *Mycoplasma*
gallisepticum 623
poultry, antibiotic A-4696 624
poultry, fermented poultry manure 9614
poultry, fungistat, gentian violet 956
poultry, microbial protein 1766
poultry, poultry waste treatment, bacterial
protein 2314
poultry, *Torula* protein 7033
poultry, *Torula* RNA 7033
poultry, zeaxanthin 73 74
rabbit, flavomycin 7040
rabbit, spiramycin 7040
rabbit, zinc-bacitracin 6103
ruminant 2596
ruminant, aflatoxin B1, rumen microorganisms
4254
ruminant, antibiotic A2041 derivatives 200
ruminant, cellulose dry matter digestibility
6095
ruminant, cephalosporin R-sulphoxides 4736

Feed(Contd),

ruminant, chloramphenicol 7039
ruminant, *Lactobacillus bulgaricus* fermented
cheese whey 4226
ruminant, *Lactobacillus* fermented
potato-processing waste 9613
ruminant, monensin 3417
ruminant, ochratoxin A, rumen microorganisms
4254
ruminant, penicillin R-sulphoxides 4736
ruminant, preservative 9643
ruminant, rumen bacteria, selective medium
3959
ruminant, rumen microorganisms 5243
ruminant, rumen microorganisms, milk 944
ruminant, silage 9635 9646
ruminant, silage, preservation 7045
ruminant, silage, preservative 9643
ruminant, sterigmatocystin, rumen
microorganisms 4254
ruminant, tomato pulper waste silage 9640
ruminant, trichloroethyl acetate, methane
suppression 9620
ruminant, volatile fatty acids, pivalic acid
3616
sheep, corn + poultry litter silage 9637
sheep, ensiled broiler-house litter 7789
sheep, haylage 6109
sheep, silage 6109
sheep, silage, digestibility 6108
turkey, bambermycins 953
turkey, chlortetracycline, *Salmonella*
typhimurium 7041
turkey, *Methylophilus methylotrophus*,
methanol 9617
turkey, oxytetracycline, faeces bacteria
7042
turkey, penicillin 203
turkey, *Streptomyces flavopersicus*
fermentation residue 1768
turkey, sulphaquinoxaline, *Pasteurella*
multocida vaccine 204
yeast, fruit cannery waste 911
Feedlot waste,
degradation, *Pleurotus ostreatus*, protein,
cattle feed 10448
Feldamycin,
Streptomyces ficellus, antibacterial agent
5734
Streptomyces ficellus, structure 6637
Feline leukaemia virus,
continuous-flow molecular filtration 10630
Feline leukaemia virus vaccine,
3837
Feline rhinotracheitis virus vaccine,
9165
Fellmongery wastewater,
activated sludge treatment 9188
Fenaminosulf,
tolerance, *Tilletia caries*, wheat 7225
tolerance, *Tilletia foetida*, wheat 7225
Fenamiphos,
Trichoderma, tobacco rattle virus, potato
7928
Fenarimol,
Guignardia bidwellii, grape 8802
Fennel,
Erysiphe umbelliferarum 1911
Rhizobium, nodulation, subamycin 2886
rhizosphere fungi 2064
rhizosphere/rhizoplane fungi, subamycin 2863
seed, *Aspergillus flavus* 1838
seed, *Rhizobium* 4589
Fensulfothion,
Sclerotium rolfsii/Rhizobium
solani/Trichoderma harzianum, soil/peanut
2086
Fenthion,
rice rhizosphere microorganisms 8916

Subject index

Fentin,

Puccinia arachidis, peanut 8612

Fentin hydroxide,

Erysiphe betae/virus yellows, sugarbeet 7977

Phytophthora infestans, potato 4404

Fenugreek,

aflatoxins 9703

Rhizoctonia solani 1018

seed, fungi 1017

Ferbam,

Botrytis cinerea, raspberry 4507

Colletotrichum piperatum, chilli 4490

Curvularia lunata, cluster bean 2002

Didymella applanata, raspberry 4507

estuarine water bacteria 4884

Fusarium oxysporum, chilli 4490

Macrophomina phaseolina, papaya 2802

Phytophthora nicotianae, mandarin orange 2724

Fermete,

Alternaria, wheat 2005

Fermentations,

796 802 821 4152 4153 4914 5164 7591 7692 9500 9501

acetic acid, *Acetobacter* 7597

after-yeast molasses stillage,

methane-forming bacterium 893

alcoholic, *Saccharomyces cerevisiae*, Vacuum process 9502

amino acids 9501

anaerobic bacteria, horse blood agar medium 3168

anti-foam agent 88

antibiotics 9500 9501 10222

automation 5160

biomass, fuel 9319

brewery waste, methane 10094

Candida albicans identification 10617

Candida utilis, gas-exchange, computer 3354

carbohydrate, *Neisseria* 10579

carbohydrate, *Neisseria*, medium 4960

carbon dioxide desorption 9497

cassava, garri, microorganisms 8451

cattle dung, biogas 9190

cellobiose, *Clostridium thermocellum* 6014

cellobiose, *Clostridium thermocellum* +

Methanobacterium thermoautotrophicum 6014

cellulose, *Clostridium thermocellum* 6014

cellulose, *Clostridium thermocellum* +

Methanobacterium thermoautotrophicum 6014

cheese whey, galactose 8489

cheese whey, *Lactobacillus bulgaricus*,

ruminant feed 4226

colostrum, animal feed 7780

colostrum, cattle feed 7035

computer 4914 6011 7591 8435 9491 9492

continuous, glucose, *Saccharomyces*

carlsbergensis 6969

continuous, grape juice, yeast, slant-tube

fermentor 6976

continuous, yoghurt 5215

corn, aflatoxins 9707

cucumber, carbon dioxide, purging, bloater

control 4249

dry sausage 5233

dynamic calorimetry 2543

ethanol 6013

ethanol, molasses 5165

exponential-fed batch culture 5163

fed-batch, hydrocarbon 8939

filtration characteristics 3355

food 1715

fruit juice 9518

gas chromatography, methanol/fusel oil 92

gel chromatography 91

glucose, *Acetobacter melanogenus*,

2,5-diketo-D-gluconic acid 6828

green olive 3362 4165

heat evolution 4155

Fermentation(Contd),

Indonesian tape ketan, *Amylomyces rouxii* + yeast 8452

inositol, *Klebsiella*, medium 4949

inositol, *Klebsiella* 7564

Lactobacillus, potato-processing waste,

ruminant feed 9413

lactose, milk, *Streptococcus* group N 2570

malo-lactic, *Lruconostoc genos*, wine 1704

malo-lactic, wine 9516

manure, microorganisms 7487

mastitic milk, antibiotics, cattle feed 4229

mathematical model 2586

microbial 4151

microbial culture 9496

microorganisms 9494 9495

microorganisms, zero gravity 4031

milk, lactic acid bacterium 1709

mixed microbial culture 8266

molasses, *Saccharomyces cerevisiae*,

ultrasound 9519

North Sea gas, microbial protein, gas flow

measurement 2542

olive 1706

olive, *Lactobacillus plantarum* 941

oxygen 5162

oxygen probe 9247

oxygen transfer coefficient 10526

peach wine, 2,6-dichloro-4-nitroaniline 7700

peanut 3407

peanut press cake 3408

poultry manure, poultry feed 9514

rapid final, beer, yeasts 4159

rumen, monensin 3417

rye mash 6976

Saccharomyces cerevisiae 4986

Saccharomyces cerevisiae biochemical fuel

cell 3553

Saccharomyces cerevisiae, computer 6010

Saccharomyces cerevisiae + lysine, ethanol

6012

sauerkraut 2593

silage, formalin/fatty acids 2601

soy sauce, microorganisms 4164

soybean idli 7027

soybean, *Phizopus oligosporus*, tempeh,

phytase, phytate 9598

soybean seed coat waste, methane bacteria,

methane, *Aspergillus niger* hemicellulolytic

enzyme 10095

straw, animal feed 9612

sugar, *Saccharomyces carlsbergensis*, esters

6970 6971

sugar, *Saccharomyces cerevisiae*, esters 6970

6971

swine waste, swine feed 3872

tree bark 7488

waste whey, organic acids 4852

wheat, aflatoxins 9707

wild rice, bacteria 2549

yeast 101

yeast filtration characteristics 6015

yeasts 7720

Zymomonas 6974

Fermentation and related processes,

88-107, 892-898, 1697-1706, 2542-2549,

3352-3362, 4151-4165, 5159-5184, 6009-6018,

6966-6978, 7691-7705, 8435-8452, 9491-9519

Fermentation apparatus,

894 7691

microbial protein 1629

microorganisms 751

Fermentation broth,

non-Newtonian, rheology/mass transfer 90

preservative, cinnamyl phenols 532

Fermentation industry,

glassware 6966

membrane filtration sterilisation 10213

slops, *Candida utilis* biomass 5886

Subject index

- Fermentation jar,**
Chinese, sauerkraut 4222
- Fermentation liquor,**
lactose, lactic acid, reverse osmosis, whey 8491
- Fermentation tank,**
beer, detergent/disinfectant 4901
- Fermentation test,**
continuous, *Saccharomyces cerevisiae* 2395
- Fermentation tower packing,**
coating 4918
- Fermented dairy product,**
shelf-stable 4237
- Fermented flour,**
Lactobacillus 2528
- Fermented food,**
4163 4190
Lactobacillus acidophilus, lysine 5205
Lactobacillus plantarum, lysine 5205
lysine 5205
- Fermented meat product,**
6082
quality control 6082
- Fermented milk product,**
testing 2571
- Fermented sausage,**
Pediococcus acidilactici 7018
- Fermenter,**
4914 5159 9493 9494 9495
aeration capacity, fast-response oxygen electrode 7693
baffle plate 6009
beer 9504
column, microorganisms, continuous culture 9246
continuous multistage tower 89
foam breaker 3939
foam breaker, fluid impact dispersion apparatus 5818
glass, bottom outlet valve 4919
horizontal rotary, *Pseudomonas ovalis*, gluconic acid 4034
lactic acid bacterium 1570
large-scale, beer 1700
microbial film 3352
multi-stage tower, *Candida utilis* biomass, ethanol 6824
multistage tower, oxygen transfer rate, backflow coefficient 9499
oxygen transfer power/economy 9498
pH electrode/oxygen electrode 5161
sewage treatment 10525
slant-tube, grape juice continuous fermentation, yeast 6976
stirred-tank 4154
tower air lift, *Rhizobium japonicum* culture 5851
tower cycling, microbial protein 5902
tubular loop, microbial culture 6967
- Ferramidochloromycin,**
Streptomyces, lipid/oil 6543
- Ferredoxin,**
Clostridium acidurici 5032
Clostridium butyricum 5032
Clostridium pasteurianum 5032
Clostridium tartarivorum 5032
Clostridium thermoaceticum 7604
Desulfovibrio desulfuricans 3243
Halobacterium 6848
Peptococcus aerogenes 5032
Pseudomonas 7
- Ferric ammonium citrate,**
cholera vaccine potency assay 3089
- Ferric sulphate,**
pyritization, *Desulfovibrio desulfuricans*, soil 6456
- Ferrobacillus,**
uranium leaching 466
- Ferrobacillus ferrooxidans,**
uranium leaching, *Rhodotorula* 10090
- Ferrocytochrome c:hydrogen-peroxide oxidoreductase,**
Thiobacillus thiooxidans 7622
- Ferrolobus,**
metal leaching 10087
- Ferrous sulphide,**
amorphous, anaerobic bacteria culture 6765
- Fertilization,**
forest soil, mycorrhizae, loblolly pine 88
sea water, sewage 5003
- Fertilizer,**
ammonium nitrate, *Rhizobium meliloti* + alfalfa, nodulation, nitrogen fixation 549
ammonium, soil, nitrification 6435
Azotobacter, sorghum seed 3629
chir pine mycorrhiza 3600
manganese, *Protomyces macrosporus*, coriander 3574
mineral, potato, resistance, *Fusarium solani* 8758
mineral, rhizosphere microorganisms 3656
mineral, soil microorganisms 8920
nitrogen fixation, soybean + *Rhizobium* 2083
nitrogen, *Fomitopsis annosa*, spruce 2846
nitrogen, *Protomyces macrosporus*, coriander 3574
nitrogen, soil, denitrification 1171
nitrogen, soil, nitrogen fixation 8892
nitrogen, soil, *Sclerotium rolfsii*, plant protection 6347
patula pine mycorrhiza 3600
Phoma chrysanthemicola, *chrysanthemum* 4481 4482
phosphate-solubilizing bacteria, tomato rhizosphere 8038
Phosphobacterium, maize seed 3629
phosphorus, *Fomitopsis annosa*, spruce 2846
phosphorus, *Protomyces macrosporus*, coriander 3574
phosphorus, vesicular-arbuscular mycorrhiza, potato 8878
potassium, *Fomitopsis annosa*, spruce 2846
sewage sludge 9194
soil, composted waste 3120
soil dehydrogenase 5506
soil microflora 1178
soil microorganisms 6450 10036
soil microorganisms, *Pythium aphanidermatum*, tomato 1085
Streptomyces scabies, potato 1941
tree bark, microbial fermentation 7488
urea, black spruce soil, microflora respiration 2830
urea, tropical soil, hydrolysis/nitrification 456
Xanthomonas polysaccharide 1685
- Ferulic acid,**
degradation, *Rhizobium* 6021
- Fescue,**
giant, leaf streak mosaic virus, electron microscopy 4336
meadow, fungal diseases 8641
meadow, *Helminthosporium* 8641
red, *Corticium fuciiforme* 8641
red, *Curvularia trifolii* 1873
red, *Erysiphe graminis* 7875
red, fungal diseases 8641
red, *Helminthosporium* 8641
red, *Helminthosporium siccans* 7875
red, snow mould 1872
red, snow mould fungi, fungicide 4485
sheep's, snow mould 1872
sheep's, vesicular-arbuscular mycorrhiza 4568
- Fescue grass,**
Ustilago bullata 1875
- Fescue leaf streak mosaic virus,**
giant fescue, electron microscopy 4336

Subject index

- estuca arundinacea,**
rhizosphere bacteria, polysaccharide 3329
- estuca elatior,**
fungal diseases 8641
Helminthosporium 8641
- estuca gigantea,**
leaf streak mosaic virus, electron microscopy 4336
- estuca ovina,**
snow mould 1872
vesicular-arbuscular mycorrhiza 456f
- estuca rubra,**
Corticium fuciforme 8641
Curvularia trifolii 1873
Erysiphe graminis 7875
fungal diseases 8641
Helminthosporium 8641
Helminthosporium siccans 7875
snow mould 1872
snow mould fungi, fungicide 4485
- ibre,**
fungicide, quaternary ammonium compound 2961
non-woven, antibacterial agent + antifungal agent 804J
- ibre material,**
antibacterial agent, penicillins 3753
antimicrobial agent 3660
- ibreboard industry,**
microbial slime 10471
- ibrinolysin,**
Bacteroides 3249
- ibrinolytic enzyme,**
Actinomyces sphaeroides, culture medium 44
- ibrous material,**
antibacterial agent/antifungal agent 469
- icellomycin,**
Streptomyces ficellus, antibacterial agent 5733
- icus,**
Alternaria alternata post-harvest decay, fungicide 9914
- icus bengalensis,**
bark extract, watermelon mosaic virus, marrow 5434
- icus carica,**
Cerotium fici, fungicide 5421
Colletotrichum, fungicide 5421
- icus elastica,**
bark extract, watermelon mosaic virus, marrow 5434
- icus religiosa,**
+ Spirillum, nitrogen fixation 5501
- ig,**
Cerotium fici, fungicide 5421
Colletotrichum, fungicide 5421
Kadota, Alternaria alternata post-harvest decay, fungicide 9914
- iji disease,**
sugarcane, hot water treatment 4478
- iji disease virus,**
sugarcane 6227
- ilamentation,**
Bacillus cereus, beta-amylase 9358
- ilbert,**
Anisogramma anomala 4363
Aspergillus parasiticus, aflatoxin 2625
- ilipendula ulmaria,**
Sphaerotheca macularis 304
- ilipendula vulgaris,**
Sphaerotheca macularis 304
- ilm,**
microbial, carbon dioxide transport 582C
microbial, insecticide, mosquito 86
- ilm reactor,**
biological 3152
microbial 3850
- ilter,**
air 670 4829
anaerobic, waste treatment 3097
anaerobic, wastewater treatment 9174
- Filter(Contd),**
asbestos, aflatoxin B1 981
bacteria, gas 3950
biological, vegetable industry effluent treatment 6699
biological, water purification 1502
immersion, waste treatment 2317
membrane, Aquella virus concentrator, tap water 3896
membrane, Azotobacter, soil/water 3174
membrane, beer, yeast, tetracycline, antibacterial agent 1702
membrane, coliforms, water 6720
membrane, -DNA test, somatic cells, milk 5995
membrane, faecal indicator bacteria, ice-covered river water 3132
membrane, fungi, water 2326
membrane, Fusarium solani, soil, scanning/transmission electron microscopy 2869
membrane, + most probable number test, Salmonella/coliform, estuarine water 722
membrane, Nuclepore, bacteria, fluorescence microscopy 9258
membrane, Nuclepore, bacteria, fluorescence microscopy/scanning electron microscopy 9263
membrane, Streptococcus/coliform, water/wastewater 1506
membrane, Vibrio parahemolyticus, sea water 39C1
Millipore, Mycoplasma conditional-lethal mutants 2399
Millipore, Mycoplasma virus conditional-lethal mutants 2399
percolating, vegetable industry effluent treatment 6699
pleated cartridge, regeneration, enterovirus, tap water 6716
pleated membrane, poliovirus, estuarine water 3900
steam sterilisation 5599
submerged biological 3096
submerged biological, waste treatment 3096
trickling, dairy waste treatment 679
trickling, microorganisms, antibiotics, sewage treatment 3862
trickling, sewage treatment 6576
trickling, wastewater treatment 3852 8211
water purifier 9215 9216 9217
- Filter bed,**
biological, wastewater treatment 3886
- Filter, membrane,**
see Membrane filter
- Filter mud,**
Rhizobium carrier 2879
- Filtration,**
antibiotic purification 2988
beer, Brew-N-zyme CGF13 5176
biological, sewage treatment 6572
continuous-flow molecular, feline leukaemia virus 10630
estuarine water, enterovirus 9224
estuary water, enterovirus 8245
gel, Clostridium perfringens toxin 993
gel, Streptococcus faecalis chain disrupting system 4135
membrane, antibiotics 9029
membrane, chlorinated sewage effluent, coliforms 3110
membrane, coliform, chlorinated effluent 9271
membrane, coliforms, water 10475
membrane, drinking water 4872
membrane, gas sterilisation 10213
membrane, injured coliforms, water 10474
membrane, m-FC medium, Klebsiella pneumoniae 495C
membrane, penicillins, quality control 10287

Subject index

Filtration(Contd),

- membrane, pharmaceutical gelatin quality control 9022
- membrane, *Pseudomonas aeruginosa*, water/sewage 6719
- membrane, sterile medium, continuous culture 3149
- membrane, tetracyclines 9108
- membrane, wild yeast, brewer 98
- microorganisms, hydrostatic pressure 7534
- microorganisms, metal working cutting oil 7287
- molecular, swine influenza virus, swine influenza virus vaccine 4846
- sand, water disinfection 8238
- tangential flow, bacteria, aseptic harvesting 3176
- tannery effluent treatment 10449
- water 718

Filtration characteristic,

- fermentation 3355
- pullulan broth 3355

Filtration system,

- drinking water, *Escherichia coli*, bacteria 8240

Fimbristylis diphylia,

- Puccinia fimbristylidis* 997

Fimbristylis miliacea,

- Puccinia fimbristylinis* 997

Fir,

- balsam, *Pucciniastrum goeppertianum* 8000
- Douglas, *Cylindrocarpum destructans*, *Xiphinema bakeri* 8544
- Douglas, *Cytospora kunzei* 10006
- Douglas, decay fungi 5446
- Douglas, *Dermea pseudotsugae* 6383
- Douglas, *Dermea tetrasperma* 6383
- Douglas, *Fomes annosus* 1122 3604
- Douglas, *Fusarium oxysporum*, soil 2832
- Douglas, *Micropera fosteri* 6383
- Douglas, *Micropera lunaspora* 6383
- Douglas, *Micropera pinicola* 6383
- Douglas, *Micropera uncinata* 6383
- Douglas, needles, internal fungi 7995
- Douglas, *Phaeocryptopus gaeumannii*, cubrous oxide 1126
- Douglas, *Phellinus weirii* 1124 7232
- Douglas, pole, antifungal treatment, kerf 4553
- Douglas, *Polyporus schweinitzii* 3607
- Douglas, soil, mycorrhiza 6380
- Douglas, *Sparassia crispa* 3607
- European silver, *Herpotrichia parasitica* 2833
- Fomitopsis annosa*, rhizosphere microflora 408
- grand, *Armillaria mellea*, wetwood 7235
- grand, decay fungi 5446
- grand, *Fomes annosus*, sapwood dry zones 7233
- grand, *Fomes annosus*, wetwood 7235
- grand, *Phellinus weirii* 7232
- noble, *Herpotrichia parasitica* 3605
- Sakhalin, soils, *Tricholoma matsutake* 5443
- Siberian, *Melampsora cerastii* 6384
- Siberian, soft resin, antibacterial agent/antifungal agent 8094
- silver, *Herpotrichia parasitica* 3605
- silver, wood preservative 8013
- subalpine, decay fungi 5446
- white, *Acanthostigma parasiticum* 5449
- white, *Fomes annosus* 3608
- white, *Rehmiellopsis abietis* 5449

Fireblight,

- Erwinia amylovora*, apple 297 5343
- Erwinia amylovora*, aole, resistance 5343
- Erwinia amylovora*, apple, streptomycin 2028
- Erwinia amylovora*, crabapple, resistance 3553
- Erwinia amylovora*, pear, bactericide 5439

Fireblight(Contd),

- Erwinia amylovora*, pear, biological control 5439
- Erwinia amylovora*, pear, resistance 3554 8775
- Erwinia amylovora*, pear, triazinedione derivatives 1119
- Erwinia amylovora*, phage, apple 5342
- Erwinia amylovora*, streptomycin resistance, apple/pear 2822
- Erwinia amylovora*, thornless blackberry 86

Fish,

- aquarium, *Salmonella* 1527
- bacteriology 932
- boliti, dried, nisin 1794
- Clostridium botulinum* 9586
- disinfection/sterilisation, iodine + polyvinylpyrrolidone 967
- dried, bacteriology 935
- feed, oxytetracycline, sulphuriazine/trimethoprim 7038
- fresh, microorganisms 9585
- frozen, microorganisms 9585
- furunculosis, *Aeromonas salmonicida*, immuno-India ink method 9267
- hatchery, disinfection, ultraviolet irradiation 1502
- gamma-irradiation preservation 4244 4245
- kanaboko, *Clostridium botulinum* toxin 1814
- prepacked, carbon dioxide snow preservation 4243
- prepacked herring, storage, shelf-life 4246
- Pseudomonas perolens* 921
- quality control 4213
- quick-salted cakes, microbiology 1753
- salted, microbiology 186 934
- snapper, bacteriology 4214
- Vibrio parahaemolyticus* 8511

Fish-cake,

- preservation, sorbic acid/sorbate 4247

Fish jelly product,

- browning, *Enterobacter cloacae* 1754

Fish paste product,

- kanaboko, *Candida pseudointermedia* 6088

Fish product,

- packaged kanaboko, gamma-irradiation preservation 7807
- quality control 4213
- Vibrio parahaemolyticus* 8511

Fish silage,

- animal feed 5522

Fish stuffing,

- preservation, *p*-hydroxybenzoic acid ester silicon derivatives 5551

Fisher lymphadenosis,

- antitumour antibiotic resistance 9120

Fishmeal,

- Salmonella* 1771

Fixation,

- chemical, *Klebsiella pneumoniae* capsule, electron microscopy 9273

Fixed-film denitrification,

- high-strength industrial nitrate waste 1045

Fixed-film treatment,

- industrial waste, lactic acid 10453

Flag smut,

- Agropyron scabrum* 4320
- perennial ryegrass 4320
- Poa caespitosa* 4320
- ryegrass 4320
- Urocystis agropyri*, *Agropyron scabrum* 4320
- Urocystis agropyri*, Kentucky bluegrass 6211
- Urocystis agropyri*, perennial ryegrass 4320
- Urocystis agropyri*, *Poa caespitosa* 4320
- Urocystis agropyri*, ryegrass 4320
- Urocystis agropyri*, wheat 2715 4320 4453
- Urocystis agropyri*, wheat, resistance 4453
- Urocystis occulta*, rye 4320
- Urocystis tritici*, wheat 1897 2716 4320
- Urocystis tritici*, wheat, resistance 2716

Subject index

- Flagella,**
bacterial, dark-field microscopy 3951
- Flagella core,**
Vibrio cholerae 5854
- Flagella stain,**
1553
- Flagellin typing,**
Bacillus subtilis 7549
- Flame sterilisation,**
canned apricot 2417
- Flavanone,**
derivatives, antibacterial agent/antifungal agent 10188
- Flavin,**
microbial 795
- Flavipucine,**
Aspergillus flavipes 637
- Flavobacter,**
zeaxanthin 73 74
- Flavobacterium,**
activated sludge, non-ionic surfactant degradation 1709
antibiotic B371 5706
chicken leg muscle spoilage 8506
1,2-dehydrogenation, D-homosteroid 5978
dental clinic water 10479
floc-forming, activated sludge, pronase 6686
green rotten eggs 163
Indian mackerel, gamma-irradiation 4245
isoamylase 9404
lignin degradation 8459
mesquite degradation 8457
milk 141 916
milk, proteolysis/lipolysis 142
Pacific shrimp 7020
phospholipase C, milk 5208
refrigerated chicken, volatile odour compounds 929
rhizosphere, molybdenum 6415
sewage, polyethylene glycols degradation 6022
soil, dalapon, dehalogenase 4600
soil, denitrification 7263
Streptomyces orientalis 3082
sublimation, dehydration, preservation 2981
test 1561
vacuum-packaged trout, gamma-irradiation 5258
waste treatment 5766
waste treatment, protein/enzymes/vitamins 2313
wild rice fermentation 2549
- Flavobacterium aquatilis,**
enzyme, cephalaxin 8136
- Flavobacterium devorans,**
glucose isomerase, glucose, fructose 846
- Flavobacterium dormitor,**
endo-beta-1,3-glucanase, yeast lytic enzyme 2466
- Flavobacterium ferungium,**
lignin model compound degradation 3367
- Flavobacterium flavescens,**
1,2-dehydrogenation, D-homosteroid 5978
- Flavobacterium letescense,**
lignin model compound degradation 3367
- Flavobacterium meningosepticum,**
chlorhexidine gluconate 4850
clindamycin 4850
hospital 4850
- Flavobacterium proteus,**
brewery, culture medium 7699
- Flavobacterium ringense,**
lignin model compound degradation 3367
- Flavodoxin,**
Desulfovibrio vulgaris 7623
- Flavomycin,**
chicken feed 952
chicken feed, residues 4230 7783
pig feed, *Salmonella typhimurium* 205
rabbit feed 7040
- Flavomycin(Contd),**
turkey feed 953
- Flavone,**
antibacterial agent 7318
antibacterial agent/antifungal agent 7347
derivatives, antibacterial agent/antifungal agent 10188
- Flavonoid,**
Alpinia officinarum, antibacterial agent/antifungal agent 7348
- Flavoprotein,**
microbial 795
- Flavour,**
sulphur compound, Cheddar cheese 1738
- Flavour compound,**
Ceratocystis moniliformis 5139
fungal, food 3343
microbial 9501
Saccharomyces cerevisiae 4136
- Flavumycin A,**
4801
aglycone structure 4802
- Fla,**
Alternaria linicola 9865
Cercospora linicola 305
Fusarium oxysporum, soil antifungal agent 364
Fusarium oxysporum, soil fungistasis 1053
Melampsora lini 6266
Melampsora lini, fungicide 8601
pathogenic fungi 4366
resistance, *Melampsora lini* 360
resistance, *Oidium lini* 1987
resistance, *Rhizoctonia solani* 8693
Rhizoctonia solani 8693
- Flexibacter elegans,**
5-chloroflexirucin 9470
flexirubin 75
- Flexirubin,**
Flexibacter elegans 75
- Floating loop,**
replica plating, phage 9254
- Floc,**
activated sludge, sonication, bacteria, isolation medium 6687
activated sludge, waste treatment 3848
Zoogloea ramigera 8227 8228
- Flocculant,**
antibiotics 2987
Aspergillus sojae 883
Aspergillus sojae, *Saccharomyces* 2534
polymer, *Aspergillus sojae* 2533
sewage 1477
- Flocculation,**
activated sludge bacteria, pronase 6686
admixture, penicillin 3022
aluminium hydroxide, enterovirus, estuarine water 9224
bacteria, bentonite 10535
latex, beet curly top virus assay 16628
organic, viruses, drinking water 3130
penicillin 1348
Saccharomyces 6968
Saccharomyces carlsbergensis 5175
Saccharomyces cerevisiae 5175
Sporosarcina ureae, bentonite 10536
yeast 5861
Zoogloea polymer/activated sludge polymer 693
- Flocloxacillin,**
antibacterial agent 3031
- Flooding,**
soil, *Puccinia carthami*, safflower 9889
- Flounder,**
frozen, microorganisms 9585
- Flour,**
active dried yeast 9542
Alternaria melanin 9471
carob bean, microbiology 3405
fermented, *Lactobacillus* 2586 195

Subject index

- Flour (Contd.),**
 mushroom, microbiology 5237
 rice, yeast-leavened bread 3402
- Floury leaf spot,**
Ramularia phaseoli, bean 2470
- Flow field-flow fractionation,**
 viruses 4990
- Flow microcalorimetry cell,**
Debaryomyces hansenii, microorganisms 7581
- Flow microphotometry,**
 microbiology 4920
- Flower,**
 preservation 8552
- Flower blight,**
Alternaria, chrysanthemum 4379
Botrytis allii, onion, fungicide 6360
Botrytis cinerea, onion, fungicide 6360
Botrytis soumosa, onion, fungicide 6360
- Flower spot,**
Alternaria, chrysanthemum 4379
Xanthomonas nigromaculans, Zinnia 340
- Flucloxacillin,**
 + amoxycillin, antibacterial agent 3025 8149
 antibacterial agent 2178
Staphylococcus aureus penicillinase 7372
- Flucluzation spectroscopy,**
 DNA molecular weight 2362
- Fluctuation test,**
 mutagen assay, *Saccharomyces cerevisiae* 9256
- Fluid,**
 industrial, antibacterial agent/antifungal agent, 1,10-phenanthroline 475
 industrial, bacteria, dipslide 5832
 metal working, bactericide/fungicide 7345
- Fluid impact dispersion apparatus,**
 foam breaker, fermenter 5818
- Fluidized bed,**
 tapered, continuous bioreactor 3153
- Flumethasone,**
 veterinary topical product, antibacterial agent/antifungal agent 2970
- Fluometuron,**
Aspergillus terreus, soil 7280
 degradation, soil microorganisms 5503
 soil *Rhizoctonia solani* 8036
Trichoderma viride, soil 7280
- 5-Fluor-D,L-tryptophan,**
Claviceps/alkaloid 5576
- Fluoranthene,**
 microbial degradation 1708
- Fluorenal,**
 antiviral agent 5586
- Fluorene,**
 degradation, marine bacteria 480
 microbial degradation 1708
- Fluorescein diacetate staining,**
 fungi 5477
 soil fungi 5477
- Fluorescence,**
 aflatoxins, pecan 5275
 corn, *Aspergillus flavus*, aflatoxins 6136
 corn, *Aspergillus parasiticus*, aflatoxins 6136
 microbiology 5826
 sterigmatocystin 2624
 2-p-toluidinylnaphthalene-6-sulphonate, microbial amylase 9356
- Fluorescence spectrophotometer,**
 aflatoxin M1 + aflatoxin B1 assay, milk/dairy product 7059
- Fluorescence staining,**
 microorganisms 3158
 soil microorganisms 5468
- Fluorescent antibody,**
 see immunofluorescence
- Fluorescent stain,**
 Hoechst 33258, *Mycoplasma*, cell culture 6800
- Fluorescent staining,**
 yeast, beer 8446
- Fluoride,**
 dental caries 1532
 dentifrice, dental caries 2930 2931
 dentifrice, gingivitis 4903
 mouthwash, dental caries 7529
- Fluorimetry,**
 chlortetracycline 4783
 gentamicin complex 10313
 lasalocid + biogenic amines complexation constants 8185
 laser, + high-pressure liquid chromatograph
 aflatoxins 7697
 morphocycline + beryllium 6c1e
 oxytetracycline 4783
 rubromycin assay 6647 8192
 tetracycline 4783
- Fluorine,**
 -containing ion-exchange resins, dental caries 8252
 organic compounds, antifungal agent 5575
- 3-Fluoro-D-alanine,**
 antibacterial agent 505
- Fluoroarylthiazole,**
 derivatives, fungicide 2958
- Fluorocarbon extraction,**
 avian encephalomyelitis virus 10627
- 5-Fluorocytosine,**
 + amphotericin E, *Candida albicans* 6990
 antifungal agent 8113 9032 10175
 antifungal agent, *Candida albicans* 2952
 antifungal agent, *Candida parapsilosis* 2952
 antifungal agent, *Candida tropicalis* 2952
 antifungal agent, *Torulopsis glabrata* 2952
Aspergillus fumigatus 5574
Aspergillus niger 5574
Candida albicans 10176
Candida albicans, disc sensitivity testing 5573
 fungicide, protozoan culture medium 9024
 Hymenocystes 7334
Saccharomyces cerevisiae 10176
 serum, gas chromatography assay 8080
- Fluorodensitometry,**
 citreoviridin 6142
 ergot alkaloid assay 7678
- 5-Fluorodeoxyuridine,**
Trametes badia 1230
- 5-Fluoroindole,**
Claviceps/alkaloid 5576
- Fluorometry,**
 6212
 amoxicillin assay 8150
 ampicillin assay 6552
 cephalixin assay 6552
 cephalosporins assay 7390
 Clostridium perfringens nucleoside phosphotransferase assay 7641
 minocycline assay 7421
 penicillins assay 7390
- DL-p-Fluorophenylalanine,**
Phoma tracheiphila, Citrus 9975
Phoma tracheiphila, sour orange 9975
- N-Fluorosulphonamide,**
 derivatives, antibacterial agent 2147
- 5-Fluorouracil,**
 assay, *Streptococcus faecalis* 10600
Botrytis cinerea 4669
Escherichia coli 6503
 Ftorafur, *Escherichia coli* 6503
- Fluorothiamphenicol,**
 antibacterial agent 497
- Fluotrimazole,**
Erysiphe betae/virus yellows, sugarbeet 797
Ustilago avenae 385
- Flyspeck,**
 Leptothyrium pomi, apple post-harvest decay 1047
 Zygophiala jamaicensis, carnation 8598
- Foam breaker,**
 fermentor 3939

Subject index

Foam breaker(Contd),

fluid impact dispersion apparatus, fermenter 5818

polydimethylsiloxane, *Saccharomyces cerevisiae*, brewing 5173

Foam fractionation,

virus, water 2325

Foam rubber pad,

bacteriological surface examination 10533

Foeniculum vulgare,

Erysiphe umbelliferarum 1911

Folate,

serum, assay, *Lactobacillus casei*/radioassay kit 4952

Folic acid,

fermented, milk product, microbiological assay 1731

Propionibacterium shermanii, fermented milk beverage 9544

Folic acid antagonist,

mutagen, *Streptococcus faecium* 10144

Folicidin,

resistance, *Colletotrichum coffeanum*, coffee 2921

Folidol-E605,

Bemisia tabaci, chilli leaf curl virus, chilli 7964

Folpet,

Phomopsis viticola, grapevine 9966

Rhizoctonia solani/*Pythium aphanidermatum*, cucumber 380

Stagonospora boltshauseri, bean 2671

Fomes,

soil 3632

Fomes annosus,

+ microflora, Norway spruce 7237

biological control, fungal mycorrhizae 1123

conifer sapwood dry zones 7233

conifers 5446

Douglas fir 1122 3604

eastern white pine 4545

enzymes, Norway spruce root constituents 2845

European larch 3604

5-fluorocytosine 7334

grand fir, wetwood 7235

Norway spruce 3604 3614 8004

pine 2836 2837

pine, biological control, *Peniophora gigantea* 2838

pitch pine 2836

ponderosa pine 1122

radiate pine 2836

radiate pine x pitch pine 2837

red pine 2836

Scots pine 3604

Sitka spruce 3604

spruce 8852

sugar pine 1122

wood, biological control 6405

Fomes durissimus,

culture 2042

mahogany 2849

Fomes fomentarius,

horse chestnut, scanning electron microscopy 4537

wood, scanning electron microscopy 6400

xylanase 9478

Fomes laricis,

conifers 5446

Fomes lignosus,

rubber tree 329

Fomes lividus,

feed treatment, animal feed 2596

Fomes marginatus,

xylanase 9432

Fomes nigrolimitatus,

conifers 5446

Fomes pinii,

conifers 5446

Fomitopsis annosa,

fir, rhizosphere microflora 403

pine 2834

pine, biological control, fruit fly 6390

spruce, nitrogen/potassium/phosphorus

fertilizer 2846

Fomitopsis pinicola,

Norway spruce 8853

Picea glehnii 5467

Food,

abattoir hygiene 6745

Absidia corymbifera protein 1622

aflatoxin 3431

aflatoxins 4254 7058 8561 9703

aflatoxins, assay 5270

aflatoxins, high-pressure liquid chromatography 9696

aflatoxins, thin-layer chromatography 8557

aircraft, hygiene 6739

animal, mycotoxins 8560

animal production, hygiene 6744

animal tissues, lincomycin residues, assay 2337

antibacterial agent/antifungal agent,

phenyl-indole derivatives 6530

antibacterial agent, penicillins 3753

aseptic packaging 6122 7048

aseptic packaging, air microflora 738

aseptic slicing 8525

aseptic tank 215

Aspergillus fumigatus protein, cassava 2564

Aspergillus, heat resistance 10114

Aspergillus terreus toxin 3428

Aureobasidium pullulans protein, straw hydrolysate 4054

Azotobacter indicus heteropolysaccharide-7 1681

Bacillus cereus exo-enterotoxin, aggregate haemagglutination 5292

Bacillus cereus haemolysin 7078

Bacillus cereus, heat resistance 6470

Bacillus cereus, heat treatment/gamma-irradiation/sodium chloride 6527

Bacillus cereus lethal toxin 7078

Bacillus cereus phospholipase C 7078

Bacillus cereus, serotyping 5200

Bacillus stearothermophilus heat resistance, water activity 6929

Bacillus subtilis protein, nucleic acid content reduction 3380

bacteria 4185

bacteria, formic acid 8317

bacteria, polytropic diagnostic tubes 9259

bacteria, tyrosine decarboxylase/histidine decarboxylase 8493

bacterial protein 9344

bacteriology 5199 6024 6027

bacteriology, hygiene 6985

Edelweiss bacteriophage 7717

benzoic acid, assay, *Rhodotorula*

rutra/*Cryptococcus albidus* 8530

botulinum toxin 3223

Brevibacterium L-lysine 2422

Byssosclamyces fulva, heat resistance 10114

Byssosclamyces nivea sores, preservative 3423

Candida boidinii protein, fatty acid, glucose/hydrocarbon 5906

Candida lipolytica protein, hydrocarbon, ribonuclease 1717

Candida tropicalis, alkane 4181

Candida tropicalis protein, fatty acid, glucose/hydrocarbon 5906

Candida tropicalis protein, hydrocarbon, ribonuclease 1717

Candida utilis 6033

Candida utilis biomass, fermentation industry slops 5886

Candida utilis, ethylene culture 1190

Candida utilis protein 1718

Subject index

Food(Contd),

Candida utilis protein, fatty acid, glucose/hydrocarbon 5906
 canned, bacteria 4185
 canned, dyssochlamys fulva chlamydospores 129
 canned, cooling water, chlorine compounds 1780
 canned, heat sterilisation 5248
 canned, hygiene 5810
 canned, lethality-Fourier number method 9658 9659 9660
 canned, mould, Clostridium botulinum toxin 3447
 canned, rotational sterilisation 7793
 canned, sterilisation 1779 9657
 canned, sterilisation apparatus 3420
 cephalosporins, pyrolysis gas-liquid chromatography 5636
 Clostridium botulinum/botulinum toxin 2641
 Clostridium botulinum toxins 9730
 Clostridium, D-cycloserine bitartrate medium 3377
 Clostridium perfringens 908 9532
 Clostridium perfringens enterotoxin 9532
 Clostridium perfringens, enumeration medium 7721
 Clostridium perfringens, redox potential 127
 Clostridium sporogenes 9730
 cold-stressed/heat-stressed Vibrio parahaemolyticus, enrichment medium 8290
 coliform, timed-release capsule method 3972
 coliforms, antibiotic resistance 4633 6028
 coliforms, Escherichia coli 6988
 coliforms, violet red bile agar 6770
 corn, Fusarium moniliforme, mycotoxins 9790
 cottonseed product, Clostridium perfringens 5201
 dairy industry wastewater 9185
 distilled water quality, interval plating technique 6755
 dried, microorganisms 130
 dried, Streptococcus 131
 dry-milled corn products, aflatoxins 9706
 dry-milled corn products, zearelenone 9706
 Enterobacteriaceae, Enterotube/Pathotec Rapid I-D System/Modified-Expanded R/S Enteric Differential System/API-20 Enteric System/Minitek Differential System 9534
 Escherichia coli 909
 Escherichia coli, antibiotics resistance 6028 6475
 farinaceous products, hygiene, Salmonella, Staphylococcus aureus 10500
 fermented, Lactobacillus acidophilus, lysine 5205
 fermented, Lactobacillus bulgaricus, lysine 5205
 fermented, Lactobacillus plantarum, lysine 5205
 frozen, fungi 6026
 frozen, microbiological standards 8462
 frozen, microorganisms 9652
 frozen, Streptococcus 131
 frozen, Streptococcus group D 9533
 fungal flavour compounds 3343
 fungal glucose oxidase 4093
 fungi 7718
 fungi, acidified potato dextrose agar/iron-acidified chlortetracycline potato dextrose agar 1591
 fungi, mycotoxins 8467
 fungi, selective medium 8468
 gelatin, Salmonella, pre-enrichment medium 7723
 Geotrichum candidum 8466
 heat-dried/Lyophilised Saccharomyces cerevisiae protein 7726

Food(Contd),

heat-injured Vibrio parahaemolyticus, culture medium 9289
 heat sterilisation 8523
 high-temperature short-time sterilisation 4748
 hospital, bacteriology 126
 hospital, chill service system, microbiology 5232
 hospital, Yersinia enterocolitica 4287
 hygiene 739 2348 2349 3223 4633 4898 5199 6815 4986 8257 9237 10497
 infant, bacteriology 2562
 intermediate moisture, Staphylococcus aureus, antibacterial agent 1782
 gamma-irradiation, aflatoxin 3432
 gamma-irradiation sterilisation, bacteria 9662
 Kluyveromyces fragilis protein 1718
 Kluyveromyces fragilis, waste whey 6034
 Lactobacillus lactis 132
 Lactobacillus protein 6837
 Lactobacillus, waste deodorisation 1487
 low-pressure air evacuation, preservation 3422
 low temperature spoilage 6025
 lysine, assay, Escherichia coli 6992
 Methylomonas methanolica protein, methanol 9341
 methylomonas protein, methanol, formaldehyde 5901
 microbial ATP, luminescence 1548
 microbial count 3941
 microbial enzymes 134
 microbial products, hydrocarbon 3662
 microbial protein 910 3379 4053 8337 8339
 microbial protein, cellulose 5881
 microbial protein, food 9343
 microbial protein, hydrocarbon 3664
 microbial protein, nucleic acid content reduction 3380
 microbiological sampling system 2363
 microbiological standards 906 7714 8461 8463 9531
 microbiological standards, computer 8460
 microbiology 3374 3375 4997 5013 6809 6815 6986 8464
 microorganisms 1715 3224 3373 8470 9307
 microorganisms, culture apparatus 1539
 microorganisms, disintegration 2365
 microorganisms, heat resistance, thermal death time pouch 3397
 microorganisms, methanol 820
 microorganisms, pesticide degradation 1758
 mushroom 3409 9601
 mushroom, protein, amino acids 5236
 mushrooms 2594
 mycotoxins 223 2412 3375 7055 7806 7809 8560 9688 9689
 mycotoxins, field desorption mass spectrometry 7810
 nitrate-reducing bacteria, nitrite, nitroso compound 8515
 oilseed protein, microorganisms 4191
 package 7796
 packaged, microwave sterilisation 1777
 packaged, sterilisation 1779
 packaged, sterilisation, retorting tray 5252
 packaging 959 5253 7043
 packaging, hygiene 5253
 packaging/sterile filling 2160
 packaging, sterilisation 1778
 packaging, ultraviolet sterilisation 9664
 Paecilomyces protein, cassava 2564
 pasteurisation, plate heat exchanger 2605
 peanut, fungi/mycotoxins 2773
 penicillic acid + patulin, high performance liquid chromatography 8570
 penicillins, pyrolysis gas-liquid chromatography 5636

Subject index

Food(Contd),

Phycomyces nitens/Phycomyces blakesleeana
lipase 4196
plastics container packaging 7047
Pleurotus tuber-regium 9603
polymer packaging, bacteria 8531
preservation 3223 3421 4998 6811 8526 8552
9650
preservation, Bacillus cereus 8527
preservation, chilling/freezing 5250
preservation, drying 8528
preservation, fungi 7794
preservation, gamma irradiation + heat
treatment, Aspergillus flavus 213 214
preservation, garlic 10143
preservation, gamma-irradiation 5249
preservation, gamma-irradiation, Aspergillus
flavus, aflatoxin 6121
preservation, lyophilisation 9653
preservation, magnesium 3810
preservation, refrigerator 9651
preservation, yeasts 7794
preservative, butylated hydroxy anisole 958
preservative, Bvssochlamys nivea 4252
preservative, cephalosporin derivatives 1313
2209
preservative, cinnamyl phenols 532
preservative, + fructose, antibacterial
agent/antifungal agent 5593
preservative, penicillin derivatives 1313
preservative, sorbic acid 8529
preservative, sulphur dioxide, potentiometric
sensing probe 5251
preservative, thiamycin 651
protein, Fusarium 2563
protein hydrolysate, lysine, assay,
Leuconostoc mesenteroides 5204
protein hydrolysate, methionine, assay,
Leuconostoc mesenteroides 5204
Pseudomonas inaudita protein, methanol 5036
Pseudomonas utilis protein, methanol 5036
quality control 906 1292 2557 2592 3373 6986
radappertization, Clostridium botulinum 9661
refrigerated/frozen, microbiological
standards 4186
refrigerated/frozen, quality control 4186
Rhizopus oligosporus protein 1622
Rhizopus rhizopodiformis protein 1622
Rhodopseudomonas capsulatus protein 8343
Rhodotorula glutinis protein 6035
rumen microorganisms 4019
rye/wheat/triticale nutritive value, assay,
Aspergillus flavus 5855
Saccharomyces cerevisiae autolysis 8312
Saccharomyces cerevisiae + lysine 6012
Saccharomyces cerevisiae membrane 1720 1721
Saccharomyces cerevisiae protein 8339 8471
Saccharomyces cerevisiae protein, fatty acid,
glucose/hydrocarbon 5906
Saccharomyces cerevisiae protein, nucleic
acid content reduction 3380
Saccharomyces cerevisiae protein, RNA
autolysis 9349
Saccharomyces fragilis protein, whey 3381
Saccharomycetaceae protein 912
safety-processed, Enterobacteriaceae 8469
Salmonella 128 775 3095 6029 7465 7761 8464
Salmonella, antibiotics resistance 6475 7300
Salmonella, enrichment medium 7573
Salmonella, Enterotube/Pathotec Rapid I-D
System/Modified-Expanded R/B Enteric
Differential System/API-20 Enteric
System/Minitek Differential System 9534
Salmonella, enzyme-labelled antibody
technique 6990
Salmonella, plating/enrichment media 3378
Salmonella saint-paul, antibiotics resistance
6475
Salmonella, timed-release capsule method
6030

Food(Contd),

scalding tank water, heat-resistant bacteria
1510
single-use containers 7795
smoked, Aspergillus flavus 2624
sorbic acid, assay, Rhodotorula
rubra/Cryptococcus albidus 8530
soybean product, Clostridium perfringens
5201
Sporotrichum thermophile protein, cassava
2564
Staphylococcus 6031
Staphylococcus aureus, antibiotics resistance
6475
Staphylococcus aureus, Baird-Parker selective
medium 7724
Staphylococcus aureus deoxyribonuclease,
assay 7725
Staphylococcus aureus enterotoxin 1822 1823
Staphylococcus aureus enterotoxin E 1826
Staphylococcus aureus, isolation medium 1714
Staphylococcus aureus, selective medium 2560
Staphylococcus aureus, thermococcal test
2561
Staphylococcus aureus, thermostable nuclease
test 5202
Staphylococcus enterotoxin 2647 6031
Staphylococcus enterotoxin A 1824 2649
Staphylococcus enterotoxin B,
radioimmunoassay 4156
sterile packaging 9665
sterilisation 210 2604 3423 3415 4118 7792
sterilisation, Hunister sterilizer 8524
sterilisation/preservation, dimethyl
dicarbonate 9663
Streptococcus group D enterococci,
antibacterial agent 2559
stressed Staphylococcus aureus, selective
medium, catalase 8257
sulphonamide, assay, bacillus
stearothermophilus/cacillus
megaterium/Micrococcus luteus 5198
temperature-stressed Pseudomonas aeruginosa,
selective medium 7722
thiamine assay, Lactobacillus viridescens
9505
toxins 2558
utensils, hygiene 7713
vegetable, microorganisms, pesticide
degradation 1758
vegetable protein, Geotrichum candidum
maceration 4221
Vibrio parahaemolyticus 931 5203 8510
Vibrio parahaemolyticus, sublethal cold shock
9589
Vibrio parahaemolyticus, sublethal heat
stress 4188
vinegar, Acetobacter 5164
viruses 124 7716
wastewater pollution, diseases 8465
water activity 907 4184
whey 8489
yeast autolysis 1716
yeast, distillery slops 6032
yeast, fruit cannery waste 911
yeast protein 9346
yeast protein, hydrocarbon 123
yeast protein-vitamin concentrate 3241
yeasts 7718 7719 7720
Yersinia enterocolitica 6951
Yersinia enterocolitica, heat resistance,
skim milk 9540
zeaxanthin 73 74
Food additive,
protease, sterilisation, gamma-radiation
1781
Food, animal,
see feed
Food antioxidant,
antibacterial agent/antifungal agent 5592

Subject index

- Food canning industry,**
 - hygiene 5810
- Food containers,**
 - sterilisation, laser beam-induced plasma 1279
- Food equipment,**
 - disinfectant, antibiotic U-48266 4789
- Food factory,**
 - washroom hygiene 3929
- Food industry,**
 - air pollution 3840
 - antibacterial agent/antifungal agent, alkylphenols 531
 - disinfectant 2936
 - disinfection 3147 7526
 - effluent, treatment 9184
 - germicide 6742
 - hygiene 3147 4899 5809 6740 6741 7526 8526
 - membrane filtration sterilisation 10213
 - microbial protease 5041
 - sanitation 737
 - washroom hygiene 3929
 - wastewater, treatment 6692 6693
 - water, bacteriology 5795
 - water, quality 1501
- Food microbiology: Animal foods,**
 - 195-209, 944-957, 1764-1776, 2596-2603, 3413-3418, 4226-4233, 5240-5247, 6094-6117, 7033-7046, 7778-7791, 8518-8522, 9610-9649
- Food microbiology: Human foods,**
 - 124-194, 906-943, 1713-1763, 2557-2595, 3373-3412, 4184-4225, 5198-5239, 6024-6093, 6985-7032, 7713-7777, 8460-8517, 9531-9609
- Food microbiology: Sterilization, preservation & packaging,**
 - 210-222, 958-971, 1777-1798, 2604-2618, 3419-3426, 4234-4252, 5248-5258, 6118-6130, 7047-7053, 7792-7807, 8523-8553, 9650-9687
- Food poisoning,**
 - 1713 3374 3375 6986 7715
 - Bacillus cereus 3376
 - Bacillus cereus enterotoxins 4275 4276
 - Bacillus cereus, serotyping 5200
 - chicken 6071
 - Clostridium botulinum 125
 - Clostridium perfringens 125
 - cornish hen 6071
 - Lactobacillus casei histamine 9587
 - poultry 6071
 - poultry carcass, bacteria 2578
 - Salmonella 125
 - Salmonella, liquid egg 3396
 - Salmonella sententberg, pork pie 121
 - Salmonella typhimurium, smoked eel 2586
 - Staphylococcus aureus 125
 - Staphylococcus aureus, canned pork 2582
 - Staphylococcus aureus enterotoxin D, sausage 245
 - Staphylococcus enterotoxin, gastric juice, radioimmunoassay 4278
 - Staphylococcus, oorridge 1757
 - turkey 6071
- Food processing plant,**
 - hygiene 10498
- Food product,**
 - farinaceous, chilled, microbiology 5234
- Food service system,**
 - microbiology 7025
- Food shop,**
 - microbiology 6987
- Foot-and-mouth disease virus,**
 - antiviral agent, persistent infection cell culture test 3711
 - antiviral agent, plaque reduction test 3711
 - bovine leukocyte cell culture 4006
 - calcium phosphate sedimentation 5868
 - Camembert cheese 3391
 - cell culture 1605
 - Cheddar cheese 3391
 - dialysis 5868
- Foot-and-mouth disease virus(Contd),**
 - foetal pig kidney cell line 4992
 - 6-MFA 6516
 - migillin 2262
 - milk/casein/caseinate 9541
 - Mozzarella cheese 3391
 - MVPK-1 foetal porcine kidney cell line 6804
 - polyethylene glycol 5868
 - RNA complexes 2804
- Foot-and-mouth disease virus vaccine,**
 - 4845 5868
- Foot blight,**
 - Operculella padwickii, gram 7112
- Foot rot,**
 - Cercospora herpotrichoides, wheat 8652
 - Cercospora herpotrichoides, wheat, soil straw 5334
 - Corticium solani, Datura innoxia 1058
 - fungi, wheat 4349
 - Fusarium culmorum, barley 8621
 - Fusarium culmorum, wheat 8621 8653
 - Fusarium culmorum, wheat, zearalenone 9723
 - Fusarium graminearum, wheat, zearalenone 9723
 - Fusarium moniliforme, Amorphophallus campanulatus 5365
 - Fusarium oxysporum, Lycopersicon 6310
 - Fusarium oxysporum, Lycopersicon, resistance 6310
 - Fusarium oxysporum, tomato 6310
 - Fusarium oxysporum, tomato, nematode 8742
 - Fusarium oxysporum, tomato, resistance 6310
 - Fusarium oxysporum, wheat, fungicide 2801
 - Fusarium roseum, wheat 7892 9836
 - Fusarium solani, bean, soil pesticide/herbicide 10073
 - Fusarium, wheat, soil straw 5334
 - Helminthosporium rostratum, wheat, biological control 4524
 - Helminthosporium sativum, wheat, seed dressing fungicide 2032
 - Operculella padwickii, gram 264
 - Ophiobolus graminis, wheat, soil straw 5334
 - Phytophthora, betel, fungicide 8677
 - Phytophthora parasitica, betel 309
 - Phytophthora parasitica, betel, antibiotics 9970
 - Phytophthora parasitica, Citrus, irrigation water 1902
 - Rhizoctonia bataticola, betel 8678
 - Rhizoctonia solani, wheat, soil straw 5334
 - Sclerotium rolfsii, Ornithogalum virens 1071
- Forage,**
 - fungus post-harvest decay 8747
- Forest,**
 - Phytophthora cinnamomi 414
 - soil, macronutrients, litter microorganisms 7994
- Forest soil,**
 - Acrodotium album 8019
 - Armillariella mellea, Armillatox 1121
 - bacteria 7255
 - beech/spruce bark degradation 2829
 - black spruce, urea, microflora respiration 2830
 - cacodylic acid, ammonification, nitrification 7265
 - Douglas fir, Fusarium oxysporum 2832
 - fertilisation, mycorrhizae, loblolly pine 8842
 - Japanese stone pine, Tricholoma matsutake 5442
 - microbiology 3623
 - microorganisms 7246
 - monosodium methanearsonate, ammonification, nitrification 7265
 - northern spruce, bacteria 5441
 - Phellinus weirii 1124
 - phosphate, mycorrhizae 8876
 - phosphodiesterase 10048

Subject index

Forest soil(Contd),

Phytophthora cinnamomi, *Penicillium*
 purpurogenum 7260
 rhizosphere microorganisms 7246
 Sakhalin fir, *Tricholoma matsutake* 5443
 Sakhalin spruce, *Tricholoma matsutake* 5443
 Scots pine leaf litter, urea/urine, fungi
 2C35
 sewage sludge + *Pisolithus tinctorius*
 mycorrhiza, pine 3601
 Stereocaulon paschale, nitrogen fixation
 8915
 Streptomyces 2036
 Veronaea simplex 1169
 vesicular-arbuscular mycorrhiza 7226
 wastewater disposal, viruses 4606
 wood degradation 6401

Forest tree,

Cenococcum graniforme 2828
 ectomycorrhiza 2827
 fungi 2831
 microbial diseases, plant protection 5445

Forestry,

microbial diseases 7593

Forestry: Deterioration & treatment of timber,

419-422, 1159, 2052, 2053, 2854, 4549-4555,
 5466, 5467, 6400-6405, 7242-7245, 8009-8013,
 8863-8865, 10019-10035

Forestry: Diseases & treatment,

410-418, 1121-1158, 2037-2051, 2831-2853,
 3602-3622, 4530-4548, 5445-5465, 6383-6389,
 7232-7241, 7996-8008, 8843-8862, 9996-10018

Forestry: General,

408, 409, 2035, 2036, 2827-2830, 3599-3601,
 4527-4529, 5441-5444, 6380-6382, 7226-7231,
 7994, 7995, 8340-8842, 9995

Formaldehyde,

+ calcium hydroxide, aflatoxins, peanut meal
 228
 + hot water, *Fusarium oxysporum*, narcissus
 7978

-treated sheep feed, digestibility 6108

antibacterial agent 5523

antifungal agent 5523

antiviral agent 5523

automatic disinfection cabinet, anaesthesia
 equipment/respiratory equipment 4896

Candida boidinii culture, methanol 4003

Candida boidinii, methanol 2418

cattle house disinfection 10434

colostrum microflora 7034

colostrum preservation, cattle feed 7036

dimethylol dimethylhydantoin, antibacterial
 agent/antifungal agent/antiseptic 3903

disinfectant, bacterial resistance 1192

disinfectant testing 726

endo-tracheal catheter sterilisation 5603

filtered air under positive pressure-poultry
 house, disinfection 7520

Methylomonas methanolica, biomass/protein
 5900

Methylomonas, protein 5901

operating microscope sterilisation 7350

partial soil sterilant, *Plasmodiophora*
 brassicae, crucifer 5424

poultry house disinfection, Marek's disease
 virus 10433

Pseudomonas, biomass/protein 5900

Pseudomonas methylotropha, biomass/protein
 5900

Pseudomonas rosea, biomass/protein 5900

resistance, bacteria 5523

resistance, fungi 5523

resistance, viruses 5523

room disinfection 1508

silage preservation 7045

urinary endoscope sterilisation 9013

vaccinia virus 6736

variola virus 1242

Formalin,

silage fermentation 2601

soil fumigation, microorganisms 6453

viricide 1241

Xanthomonas fragariae, strawberry 4417

Formamide,

derivatives, fungicide 7330

derivatives, fungicide, plant protection
 7336 8824

Formamidine,

derivatives, fungicide, plant protection
 2C13

Formate,

Methylomonas methanolica, biomass/protein
 5900

Pseudomonas, biomass/protein 5900

Pseudomonas methylotropha, biomass/protein
 5900

Pseudomonas rosea, biomass/protein 5900

Formate hydrogenlyase,

bacterial 3216

Formate oxidase,

Mycobacterium, radiometry assay 5845

Formazan,

triphenyltetrazolium chloride reduction test,
Mycoplasma pneumoniae 1601

Formfleisch,

bacterial starter 193

Formic acid,

bacteria, food 8317

Candida boidinii culture, methanol 4003

Candida boidinii, methanol 2418

cod viscera silage preservation 9648

orain preservation 1796

ryegrass silage 207

silage, cattle feed 1775 9647

silage fermentation 2601

silage preservation 7045

Formol,

disinfectant 496

Formononetin,

Helminthosporium carbonum, chickpea 6348

red clover, *Sclerotinia sclerotiorum*/*Botrytis*
 cinerea 1846

Formycin,

+ coformycin, antibacterial agent 1410

Streptomyces 4807

N-Formylmethionyl-tRNA hydrolase,

Escherichia coli 26

Fortimicin,

9501

Fortimicin A,

Micromonospora, antibacterial agent 8181

Fosfomycin,

antibacterial agent 2259

resistance, bacteria 2965

Fouling,

marine water, microorganisms 7507

microbial, industrial water system 10468

microbial, industrial water system, chlorine
 10469

Fowl,

coryza, *Haemophilus gallinarum* vaccine 10431

Fowl cholera,

Pasteurella,

3-(1-methyl-5-nitro-2-imidazolyl-methylidene
 amino)-2-oxazolidinone, chicken feed 2114

Fowl cholera vaccine,

turkey, sulphaquinoxaline feed 204

Foxglove,

broad bean wilt virus 7104

Foxing,

cotton 109

paper 108 109

Fractionation,

flow field-flow, viruses 4590

sulohur isotope, *Ectothiorhodospira*

shaposhnikovii 2904

Subject index

Fradiase,

Streptomyces fradiae, animal feed microflora 43

Fradimycin,

see Neomycin

Fradycin,

yeasts 217C

Fragaria,

Alternaria alternata, phenolic compounds 1952

Botrytis cinerea 4291

Botrytis cinerea, benomyl tolerance 6372

Botrytis cinerea, benomyl tolerance, glycopeptide 8806

Botrytis cinerea, fungicide 7976

Erysoschlamys nivea, patulin 237

extract, antiviral agent 2962

fungal post-harvest decay, fungicide 8760

Fusarium oxysporum 2758

Hainesia lythri 2757

Marssonina fragariae 2757

Pestalotia longisetula 4419

Phytophthora cactorum 9890

Phytophthora fragariae 2068

Phytophthora fragariae, fungicide 2807

Phytophthora, *Phytophthora cactorum*, soil 6432

post-harvest decay, gamma-irradiation 1966

Pythium irregulare, phenolic compounds 1952

Ramularia 252

Rhizoctonia fragariae 2758

Rhizoctonia solani, phenolic compounds 1952

Rhizopus stolonifer 2757

Sclerotium rolfsii 7142

Tetracadium setigerum 307

Xanthomonas fragariae 4417

Fragaria ananassa,

fungal post-harvest decay 7192

Fragaria sikkimensis,

Phragmidium brevipedicellatum 997

Fragaria vesca,

Colletotrichum fragariae 4418

Fragaria x ananassa,

resistance, *Phytophthora fragariae* 1989

virus diseases 8729

Fragmentography,

mass, T-2 toxin, milk 989

Framycetin,

resistance, *Salmonella* 7300

vitamins/nicotinamide/p-aminobenzoic acid 2991

Framycin,

+ ionic/non-ionic surfactant, potentiometry 16309

Francisella tularensis,

chocolate agar selective medium 7560

erythromycin 1305

oleandomycin 1305

polymyxin 1305

Francisella tularensis vaccine,

3086

Frankfurter,

bacterial starter culture 7017

heat treatment, *Pseudomonas/Micrococcus* 220

microbial standards 7013

sterilisation 1793

vacuum packaged, bacteriology 7016

Fraxinus,

Nectria galligena, apple 7137

Fraxinus americana,

arabis mosaic virus 250

Freesia,

freesia mosaic virus + bean yellow mosaic virus, phenylmethylsulphonylfluoride 6267

Freesia mosaic virus,

freesia, phenylmethylsulphonylfluoride 6267

Freeze-drying,

see Lyophilization

Freeze-pressing,

disintegration, microorganisms 1597

Freeze-pressing(Contd),

disintegration, *Saccharomyces cerevisiae* 1596 1597

Freeze-thawing,

Listeria monocytogenes, transmission electron/scanning electron microscopy 4704

Freezing,

bacteria 541

food preservation 5250

food preservation, microorganisms 9652

fungi 545

Lactobacillus preservation 6541

Neisseria meningitidis preservation 4705

preservation, rumen bacteria 7356

Streptococcus lactis preservation 6541

Freezing blotter method,

Pyrenophora graminea, barley seed 6207

Pyrenophora teres, barley seed 6207

Freezing-thawing,

Salmonella gallinarum, culture medium 778

Freon-12,

Escherichia coli 10139

Freon-13,

Escherichia coli 10139

Friend leukaemia virus,

3-deazaguanine/3-deazaguanosine/3-deazaguanine acid 10183

rifamycin SV derivatives 10265

streptovaricin 10265

Frogeye leaf spot,

Cercospora nicotianae, tobacco 1959

crabapple, resistance 3553

Frogs Leg,

Salmonella 4212

Fromase,

Mucor miehei, rennet casein 2573

Frozen dough,

Saccharomyces cerevisiae, ethanol 3403

Frozen duck,

Salmonella 168

Frozen food,

fungi 6026

microbiological standards 8462

microorganisms 9652

Streptococcus 131

Streptococcus group D 9533

Frozen meat,

Salmonella 6075

Frozen poultry,

Salmonella 168

Frozen vegetable,

microorganisms, automated impedance 9594

beta-Fructofuranoside,

Corticium rolfsii 5942

Fructosane,

grass, degradation, *Lactobacillus brevis*,

silage 6106

grass, degradation, *Lactobacillus casei*,

silage 6106

grass, degradation, *Lactobacillus plantarum*,

silage 6106

Fructose,

+ food preservative, antibacterial

agent/antifungal agent 5593

antibacterial agent/antifungal agent 5593

Arthrobacter glucose isomerase, glucose 510

bacterial glucose isomerase 6893

Brevibacterium incertum glucose isomerase,

glucose 846

Flavobacterium devorans glucose isomerase,

glucose 846

glucose isomerisation, *Bacillus coagulans*

glucose isomerase 9398

Streptomyces dextrose isomerase, glucose 83

Streptomyces phaeochromogenes glucose

isomerase 6894

Streptomyces phaeochromogenes glucose

isomerase, glucose 846

Subject index

D-Fructose,

immobilised glucose isomerase-producing
microorganism 5067

Fructosylsucrose,

Phytophthora parasitica 5982

Fruit,

aseptic tank 215
Byssoschlamys nivea spores, food preservative 3423
canned, flame sterilisation 1798
canned, hygiene, *Geotrichum* 9593
cannery waste, yeast 911
canning 7053
extract, antiviral agent 2962
frozen, microorganisms 3406
low-pressure air evacuation, preservation 3422
patulin 8571
Penicillium expansum post-harvest decay,
patulin, gamma-irradiation 3434
post-harvest decay fungi, hypobaric pressure 7183
post-harvest decay, preservation 344
preservation 8552
preservation, lyophilisation 9653
preservative 1254
yeasts, colloidal silica medium 6090

Fruit blemish,

apricot, benomyl 4518

Fruit fly,

aflatoxin P1 4263
biological control, *Fomitopsis annosa*, pine 6390

Fruit juice,

byssoschlamic acid 1808
Byssoschlamys nivea 6092
Byssoschlamys nivea spores, food preservative 3423
fermentation 9518
patulin 8571
preservation, sulphur dioxide 6811
shelf-life, microorganisms 9607
wine 9517

Fruit product,

high-temperature short-time sterilisation 4248
patulin 8571

Fruit rot,

Alternaria tenuissima, snakegourd 4415
Colletotrichum fragariae, strawberry 4418
Rhizoctonia solani/*Pythium aphanidermatum*,
cucumber, fungicide 380
Sclerotium rolfsii, bittergourd 7143

Fruit syrup,

Byssoschlamys nivea 6092
yeasts 5239

Fruit tree,

virus diseases, plant protection 9816

Fruit tree virus,

dodder transmission 1610

Fruitlet core rot,

Fusarium moniliforme, pineapple 5383
Penicillium funiculosum, pineapple 5383

Frustulosin,

Stereum frustulosum, structure 10368

Frustulosinol,

Stereum frustulosum, structure 10368

Ftorafur,

Escherichia coli 6503

Fuberidazole,

resistance, phytopathogenic fungi 376

Fuchsia excorticata,

mycorrhizae, soil phosphate 8876

alpha-Fucosidase,

Enterobacteriaceae 3171

Fuel,

aircraft, *Aspergillus fumigatus*, tank corrosion 7283
aircraft, bactericide/fungicide 7288

Fuel(Contd),

aircraft, fungicide, quaternary ammonium compound 2961
aircraft, microorganisms 476
antibacterial agent/antifungal agent,
1,10-phenanthroline 475
aviation, bactericide/fungicide 7345
biomass fermentation 9319
fungicide, quaternary ammonium compound 2961
jet, *Cladosporium resinae* 10104
oil shale, *Thiobacillus* 10085
supersonic aircraft, *Aspergillus fumigatus* 4618

Fuel cell,

Saccharomyces cerevisiae 3353

Fuel oil,

degradation, soil microorganisms 101u8

Fuel tank,

microorganisms, organic acids 4617

Fuirena glomerata,

Puccinia fuirenicola 9y7

Fulvia fulva,

tomato, plant protection 5392

Fulvic acid,

bacterial degradation 3366
microbial degradation, soil 3366

Fumagillin,

Aspergillus fumigatus, beta-trans-bergamotene 7688

Fumarase,

immobilization 4056

Fumaric acid,

antiviral agent, plant protection 5984

Fumigant,

soil, *Phytophthora nicotianae*, tobacco 9971
Vorlex, soil microorganisms 10381

Fumigation,

formalin, soil, microorganisms 5453
soil, bacteria 458 459
soil, chloropicrin + methyl bromide,
Verticillium albo-atrum, pistachio 5362
soil, DD-MENCs, *Fusarium*, asparagus 9965
soil, *Fusarium oxysporum*, spinach 1951
soil, methyl bromide, *Sclerotium rolfsii*,
iris 9967
soil, *Sclerotinia sclerotiorum* 7282
soil, telone C, *Verticillium*, potato 8720

Fumitremorgin B,

Penicillium piscarium 6147

Fundazole,

Cercospora herpotrichoides, wheat 8797
fungicide, medicinal plant 3569

Fungafume,

soil fumigation, *Sclerotinia sclerotiorum* 7282

Fungal symbioses,

6201

Fungi,

wheat 6233

Fungi Imperfecti,

antibiotics, antibacterial agent/antifungal agent/antiprotozoal agent/antivermal agent 5617
furoic amide derivatives, fungicide 8813
river water 3134
soil, antibiotics, antibacterial agent/antifungal agent 5616

Fungicide,

2951 6524
2-amidocarbonylthiobarbituric acids, plant protection 2027
3,5-dihalo-4-hydroxyacetophenones 8076
4-thiocyano-quinazolines, plant protection 2024
+ ethephon, *Alternaria solani*/*Alternaria tenuis*/*Colletotrichum*, tomato 8805
+ polymeric film, plant protection 374
+ *Rhizobium*, soybean seed treatment 10070

Subject index

Fungicide(Contd),

acetylenic sulphones 512
acid anilides, degradation, soil *Nocardia* 1179
aircraft fuel 7288
alkyltin cyclopropyl derivatives 1260
1-[beta-(allyloxy)-2,4-dichlorophenethyl]-imidazole, *Geotrichum candidum*, lemon post-harvest decay 3541
1-[beta-(allyloxy)-2,4-dichlorophenethyl]-imidazole, *Penicillium digitatum*, citrus post-harvest decay 3541
1-[beta-(allyloxy)-2,4-dichlorophenethyl]-imidazole, *Penicillium italicum*, citrus post-harvest decay 3541
Alternaria alternata, Kadota fig post-harvest decay 9914
Alternaria carthami, safflower 6295
Alternaria cepulicola, onion 4492
Alternaria chrysanthemum 4379
Alternaria cucumerina, squash 382
Alternaria solani, potato 5418
Alternaria trititica, wheat 1107
Alternaria, wheat 2005
alpha-aminolaurophenone/alpha-aminolaurophenone derivatives 571
aminomethylenemalonitrile derivatives, plant protection 3578
aniline derivatives, plant protection 6365
animal feed 2794
antibiotic A-2315, plant protection 623 3799
antibiotic F-1028, plant protection 1395 1796
antifungics, *Fusarium solani* 10247
arabinofuranosylcytosine derivatives 8929
Armillatox, *Armillariella mellea*, forest soil 1121
aryl-5-fluoro-2-methoxyphenyl ketones/thiosemicarbazones 3710
Ascochyta rabiei, gram 2799
Aspergillus niger, peanut 9959
aviation fuel 7345
banana post-harvest decay 345
EAS 3050 F, plant protection 1109
BAS 3050 F, *Sclerotium rolfsii*, sugarbeet 1110
BAS 3170 F, plant protection 1109
BAS 3191 F, seed dressing, plant protection 1109
bavistin, *Rhizoctonia bataticola*, chilli 6370
Bay Meb 6447, *Ovulinia azaleae*, azalea 8819
bear seed fungi 6355
benlate, *Venturia pirina*, pear 2726
benodanil, plant protection 5417
benomyl, *Cytospora leucostoma*, peach 2023
benomyl, *Eutypa armeniaca*, apricot 7983
benomyl, *Fabraea maculata*, hawthorn 10008
benomyl, fruit blight, apricot 4518
benomyl, *Fusarium oxysporum* 10177
benomyl, *Fusarium oxysporum*, carnation 2022
benomyl, *Fusarium oxysporum*, sweetpotato 6373
benomyl, *Fusicladium effusum*, pecan 4519
benomyl, *Gnomonia leptostyla*, black walnut 10008
benomyl, *Gnomonia platani*, sycamore 10008
benomyl, *Guionardia aesculi*, Ohio buckeye 10008
benomyl, *Leptosphaeria maculans*, rape 3598
benomyl, *Microsphaera alni*, lilac 10008
benomyl, oil adjuvant, plant protection 2791
benomyl, *Phoma exigua*, potato 7947
benomyl, *Pyricularia oryzae*, rice 7215
benomyl, *Pythium*, creeping bentgrass 4517
benomyl, resistance, *Cercospora beticola*, sugarbeet 5389 9981
benomyl, resistance, *Septoria passiflorae*, passionfruit 7214
benomyl, rice 400

Fungicide(Contd),

benomyl, *Sclerotinia sclerotiorum*, cauliflower 306
benomyl, *Sclerotinia sclerotiorum*, tomato 356
benomyl seed treatment, *Rhizoctonia solani*, potato 4526
benomyl, *Septoria cornicola*, red-osier dogwood 10008
benomyl, *Septoria lactucae*, lettuce 6371
benomyl, soil nitrification 888
benomyl, soil, nitrification, *Aspergillus carneus* 2874
benomyl, soil, onion vesicular-arbuscular mycorrhiza/rhizosphere fungi 7975
benomyl, tolerance, *Botrytis cinerea* 6372
benomyl, tolerance, *Botrytis cinerea*, *Leucospermum coriofolium* 5377
benomyl, tolerance, *Botrytis cinerea*, strawberry, glycolophene 8806
benomyl, tolerance, *Monilinia fructicola*, stone fruit 4627
benomyl, tolerance, *Mycosphaerella fijiensis*, banana 6369
benomyl, tolerance, *Venturia inaequalis*, apple 5431
benomyl, *Ustilago nuda tritici*, wheat 2006
benomyl, *Verticillium cinereus*, carnation 2022
benzamide derivatives, plant protection 4508
benzimidazoles, *Botrytis cinerea*, grapevine 4515
benzimidazole-1-carboximidic acid esters, plant protection 1116
benzimidazole-2-carbamate derivatives, plant protection 397 2021 2817
benzimidazole-carbamic acid derivatives, plant protection 2816
benzimidazole, fungal resistance, plant protection 7204
benzimidazole-methyl-carbamate, plant protection 3587
benzimidazole, *Monilinia fructicola*, peach 359
benzimidazole, tolerance, *Monilinia fructicola*, stone fruit 4627
benzimidazole, tolerance, *Sclerotinia fructicola*, peach 8798
benzimidazole, tolerance, *Venturia inaequalis*, apple 3571 7213 9980
benzimidazole, *Venturia inaequalis*, apple, resistance 398
benzisothiazolinone + quaternary ammonium compound 4687
bis-trifluoromethyl-imine-imidazolone derivatives, plant protection 5429
blasticidin S, tolerance, *Pyricularia oryzae*, rice 7218
Bordeaux mixture, *Bipolaris halodes*, coconut palm 3506
Bordeaux mixture, *Diplodia pinea*, Austrian pine 8001
Bordeaux mixture, *Phytophthora palmivora*, coconut palm 3506
Botrytis allii, onion 6360
Botrytis cinerea, grapevine 5425
Botrytis cinerea, onion 6360
Botrytis cinerea, strawberry 7976
Botrytis cinerea, tomato 8004
Botrytis cinerea, wine 8447
Botrytis squamosa, onion 6360
Bremia lactucae, lettuce 4391 5426
bromopyridines, plant protection 7211
calixin, *Erysiphe graminis tritici*, wheat 4502
campogran M, plant protection 5417
Candida albicans, Coulter Counter 4668
epsilon-caprolactam + alkanediamine derivatives 2149
captan, *Septoria humuli*, hop 2743

Subject index

Fungicide (Contd),

captan, soil, onion vesicular-arbuscular mycorrhiza/rhizosphere fungi 7975
 carbamate derivatives 510 511
 carbamate derivatives, plant protection 4506
 carbamyl-oxy-benzamide derivatives 4691
 carbendazim, antiviral agent, plant protection 2819
 carbendazim, *Ceratocystis ulmi*, elm 6396
 carbendazim, *Cercospora personata*, peanut 4516
 carboxin, plant protection 6367
 carboxin, *Ustilago nuda tritici*, wheat 2004
 carboxyanilidofuran derivatives, plant protection 7982
Ceratobasidium, squash 4416
Ceratocystis fimbriata, plane 5462
Ceratocystis paradoxa, pineapple 8822
Ceratocystis ulmi, elm 2044
Cercospora elaeidis, oil palm 8803 9968
Cercospora oryzae, rice 4486
Cercospora personata, *Cercospora arachidicola*, groundnut peavine 8792
Cercospora sequoiae, Rocky Mountain juniper 6385
Cercospora sorghi, Sorghum bicolor 7973
Cercospora herpotrichoides, wheat 8797
Cerotium fici, fig 5421
Chaetoceros lauderi extract 7330
 alpha-chloro-o-acylbenzaldoxime derivatives, industrial water system 3891
 N-chlorocarboxylic acid derivatives 529
 chlorodicyano benzene organosulphur derivatives, plant protection 5595
 chloromycorrhizin A, *Monotropa hypopitys* 6004
 chloropicrin + methyl bromide, *Pistacia vera*, pistachio 5362
 chloropicrin, soil/perennial ryegrass rhizoplane microflora 457
 chlorothalonil, *Cercospora arachidicola*, peanut 2016
 chlorothalonil, *Cercosporidium personatum*, peanut 2016
 chlorothalonil, plant protection 2016
 chlorothalonil, *Verticillium fungicola*, mushroom 2017
Chromosporium fulvum, *Crambe abyssinica* 8691
Cochliobolus sativus, wheat 5420
Colletotrichum, fig 5421
Colletotrichum gloeosporioides/*Ascochyta caricae*/*Gloeosporium*, papaya 2772
Colletotrichum gloeosporioides, guava post-harvest decay 346
Colletotrichum lagenarium, bottlegourd 6357
Colletotrichum lagenarium, watermelon 6357
Colletotrichum piperatum, chilli 4490
 cooling tower 7345
 copper compound, *Phytophthora palmivora*, cacao 6362
 copper compound, plant protection 2026
 copper-containing, *Phomopsis juniperovora*, juniper 1127
 copper oxychloride, *Bipolaris halodes*, coconut palm 3506
 copper, *Peronospora*, grapevine 4504
 copper, plant protection 8807
Cronartium fusiforme, slash pine 2041
 cuprous oxide, *Phaeocryptopus gaeumannii*, Douglas fir 1126
Curvularia lunata, cluster bean 2002
Curvularia trifolii, turfgrass 1873
 3-cyanamino-2,6-dinitroaniline derivatives, plant protection 9976
 2-cyano-2-hydroxyiminoacetamide derivatives, plant protection 1105
 alpha-cyano-alpha-hydroxyimino-acetamide derivatives, plant protection 8810

Fungicide (Contd),

2-cyanoacetamide derivatives, plant protection 9974
 cyanoalkyl sulphonate derivatives, plant protection 7980
 5-cyanoalkyl-thiacyazolyurea derivatives, plant protection 1113
 cyanobenzyl cyclopropane carboxylates 6510
 cyanodithioimidocarbonic acid derivatives 1261
 cyanodithioimidocarbonic acid derivatives, plant protection 1261
 cyclic dimedone derivatives 1266
 dazomet, mycorrhiza 4609
 DB-MENCOS, fungal diseases, squash 7966
 decahydroquinoline phosphorylthio-acetyl derivatives, plant protection 4513
 Denmert, plant protection 7210
 DF-125, *Penicillium digitatum*/*Penicillium italicum*/*Alternaria citri*, satsuma mandarin post-harvest decay 5400
 dialkyl (optionally substituted hydrocarbylenebiscarbamoyl)bis-benzimidazole carbamate derivatives, plant protection 4514
Diaporthe citri, grapefruit 2722
 diaryl sulphonates 2957
 dichloromaleic imide derivatives, plant protection 9987
 dihalo-sulphonate derivatives, plant protection 7979
 dihydroxydinaphthylmethane, plant protection 4509
 dinitrothiophene derivatives, plant protection 7987
 diphenyl pyrazolium derivatives, plant protection 1114
 diphenylamine derivatives, plant protection 392
 bis(diphenylaminomethane) derivatives 1265
 bis(diphenylaminomethane) derivatives, plant protection 1265
Diplocarpon rosae, rose 2806
Diplodia natalensis, orange post-harvest decay 6318
 dithane M-45, *Phytophthora nicotianae*, passionfruit 8712
 dithiocarbamate derivatives 6526
 dithiocarbamate derivatives, plant protection 6526
 1,2-dithiol-3-thione derivatives 8077
 dithiophosphate derivatives, plant protection 2810
 dithiophosphate ester derivatives, plant protection 2808 2809
 dodine, *Venturia inaequalis*, apple 3571
Entyloma oryzae, rice 4486
Erwinia carotovora, celery 6259
Erysiphe betae, sugarbeet 7205
Erysiphe betae/virus yellows, sugarbeet 7977
Erysiphe cichoracearum, potato 4493
 estuarine water bacteria 4884
 ethirimol, *Helminthosporium sativum*, barley 4328 6205
 ethylimidazole derivatives, plant protection 8814
 ferbam, *Botrytis cinerea*, raspberry 4507
 ferbam, *Didymella applanata*, raspberry 4507
 fluorinated acridine derivatives 5577
 fluorinated ketone thiosemicarbazones 2955
 fluorinated ketones 2955
 fluorine-containing thiazoles 10170
 fluoroarylthiazole derivatives 2958
 5-fluorocytosine, protozoan culture medium 9024
 fluotrimazole, *Ustilago avenae* 385
 formamide derivatives 7336
 formamide derivatives, paper 7336
 formamide derivatives, plant protection 7336 8824

Subject index

Fungicide (Contd),

fruit/vegetable post-harvest decay 1965
 fungal diseases, rice 1029
 fungal diseases, spinach 1951
 fungal diseases, tomato 5392
 fungal resistance, plant protection 3667
 fungi, strawberry post-harvest decay 8760
 furan-3-carboxamide derivatives, plant protection 1112
 furoic amide derivatives, plant protection 8813
 Fusarium, asparagus 9965
 Fusarium nivale, bentgrass 8795
 Fusarium oxysporum, chilli 4490
 Fusarium oxysporum, ginger 2007
 Fusarium oxysporum, lemon post-harvest decay 9916
 Fusarium oxysporum, okra 9969
 Fusarium oxysporum, plant protection 4484
 Fusarium oxysporum, sesame 9959
 Fusarium oxysporum, squash 4416
 Fusarium oxysporum, wheat 2801
 Fusarium/Rhizoctonia/Sclerotium, peanut 266
 Fusarium roseum, okra 9969
 Fusarium solani, letil 2789
 Fusarium solani, okra 9969
 Fusarium solani, squash 4416
 garlic extract 10169
 Geotrichum candidum, orange post-harvest decay 2771
 Gloeocercospora sorghi, Sorghum bicolor 7973
 glutaraldehyde 5568
 glycophenes, benomyl-tolerant Botrytis cinerea, strawberry 8806
 Gnomonia leptostyla, black walnut 10016
 grape post-harvest decay 4437 5399
 guanidine derivatives, paint 8041
 Guignardia bidwellii, grape 8802
 haloaromatics 8073
 halocyanacetamide + haloacetic ester, industrial water systems 1496
 halogenated N-thiazolyl substituted 2-mercapto benzoic acid amides 6511
 halogenated oxadiazole-2-thione derivatives 5577
 Helminthosporium maydis, corn 275
 Helminthosporium oryzae, rice 4486 7972
 Helminthosporium sativum 8791
 Hemileia vastatrix, coffee 5422
 Herpotrichia juniperi, pine 2840
 hexachlorobenzene, resistance, Tilletia foetida, plant protection 7204
 hexamethylene tetramine, animal feed 2602
 hydrazino-pyridine derivatives 2139
 imazalil, Colletotrichum musae, banana post-harvest decay 3540
 imidazo-pyrimidine derivatives, plant protection 4512
 imidazole derivatives, cosmetic 8079
 imidazole derivatives, pharmaceutical 8079
 imidazole derivatives, plant protection 8079
 imidazolenine derivatives, plant protection 9988
 imidazolidine-1,4-dione derivatives 2135
 imidazolidine-1,4-dione derivatives, plant protection 2135
 industrial water system 1494 3124 7345
 insect feed 6117
 insecticide, Fusarium graminearum, zearalenone 2636
 2-iodobenzanilide, plant protection 2797 3580
 isodehydroacetic acid anilides, plant protection 2797
 isothiazole derivatives 1268
 isothiazole derivatives, plant protection 1268
 isothiazolidin-3-one derivatives, plant protection 8833
 isothiazolopyridinone derivatives 2975

Fungicide (Contd),

isothiazolopyridinone derivatives, plant protection 2975
 kasugamycin, blastiscidin S, resistance, Pyricularia oryzae, rice 8966
 Kuntan smoke 8988
 limonene derivatives, plant protection 2015
 Lophodermium pinastri, pine 1146 1147 1151 1154
 Lophodermium pinastri, red pine 1145
 Lophodermium pinastri, Scots pine 1145 1147 1150 1151 1154 8849
 Macrophomina phaseolina, papaya 2802
 mancozeb, degradation, soil Bacillus 8923
 maneb, Endocronartium harknessii, Scots pine 2039
 maneb, Lophodermium pinastri, pine 1148
 maneb, Lophodermium pinastri, Scots pine 1148 3612
 maneb, plant protection 39C 5427
 maneb + zinc, Sclerospora sorghi, sorghum 1107
 medicinal plant 3569
 Melampsora larici-populina, poplar 2047
 Melampsora lini, flax 2801
 mercurated sulphonamides, plant protection 1262
 mercury chloride seed dressing, Fusarium oxysporum, pea seed 1856
 metal ions 3699
 metal working fluid 7345
 methyl
 1-(3,4-dichlorobenzyl)-2,3-dioxoisonipecotat e 1238
 methyl-2-benzimidazole carbamate, Ceratocystis ulmi 4534
 methyl-2-benzimidazole carbamate + N-nitroso-N-cyclohexylhydroxylamine 2053
 methyl benzimidazol-2-yl carbamate, degradation, Aspergillus nidulans 5194
 2-methylbenzanilide, plant protection 2797
 microbial degradation 3363
 Microsphaera penicillata, broad bean 8606
 milk/milk product microbiology 1725
 Monilia laxa, sour cherry 9829
 monocyclic polyoxymethyleneoxazolidine 2090
 mycobactin, soil 8924
 N-acyl-aryl sulphonamides 2957
 N-methyl-N-alkoxycarbonylsulphenyl-carbamate derivatives, plant protection 3596
 (N-trimethylthio)-carbamic acid oxime ester derivatives, plant protection 9987
 naphthaquinones 5430
 Neovossia horrida, rice 9961
 nickel, wheat 2012
 nitrophenyl ester, plant protection, fungal/plant esterase 7981
 nystatin, Ceratocystis ulmi 4534
 octahydroindole phosphorylthio-acetyl derivatives, plant protection 4513
 octahydropyridine phosphorylthio-acetyl derivatives, plant protection 4513
 Opercuteella padwickii, plant protection 1100
 organic fluorine compounds 5575
 Ovulinia azaleae, azalea 8800
 oxadiazole derivatives, Aspergillus flavus/Aspergillus niger 1237
 oxadiazolidine-3,5-dione derivatives, plant protection 1115
 oxazolidine derivatives 3703
 oxazolidine derivatives, plant protection 3703
 oxazolidines polyoxymethylene-oxazolidines 471
 oxycarboxin 20EC, Hemileia vastatrix, coffee 9977
 oxycarboxin, Puccinia hordei, barley 2003
 paint 7345
 Panogen 15, Sclerotium rolfsii, brinjal 2011
 Panogen 15, Sclerotium rolfsii, peanut 2011

Subject index

Fungicide(Contd),

paper, fungal adaptation 468 4615
 paper mill 7345
 partial soil sterilant, Plasmodiophora
 brassicae, clubroot 5424
 partially-processed hide/skin preservation
 7286
 peach post-harvest decay 348
 Penicillium digitatum, Citrus post-harvest
 decay 4441
 Penicillium digitatum, orange post-harvest
 decay 6318
 Penicillium expansum, apple post-harvest
 decay 8749
 Penicillium italicum, Citrus post-harvest
 decay 4441
 pentachloronitrobenzene + hydrated lime,
 Plasmodiophora brassicae, crucifers 2811
 Peronospora, grapevine 4483
 petroleum 7288
 phenols + acetoacetic acid esters 2133
 phenols + polyacetoacetic acid esters 2132
 N-phenyl maleic imide derivatives, plant
 protection 393
 phenyl mercuric acetate seed treatment,
 Fusarium, wheat 6378
 3-phenylindole, Aspergillus niger 3707 3708
 Phoma tracheiphila, Citrus 9833
 Phomopsis citri, orange post-harvest decay
 6318
 Phomopsis viticola, grapevine 9966
 N-phosphinyl-amidine/N-phosphinothioyl-amidin
 e derivatives, plant protection 7224
 phospholane/phosphite derivatives, plant
 protection 3576
 phosphonate derivatives, plant protection
 8809
 phosphonic acid derivatives, plant protection
 8808 9973
 phosphoric acid derivatives, plant protection
 9973
 phosphoryl phenyldiamine derivatives, plant
 protection 1118
 phthalimide derivatives, plant protection
 2815
 phthalonitrile, plant protection 3579
 Physoderma maydis, corn 8793 8794
 Phytophthora, betel 8677
 Phytophthora cinnamomi, Lawson cypress 8843
 Phytophthora fragariae, strawberry 2807
 Phytophthora infestans, potato 2008 4404
 7203
 Phytophthora nicotianae, mandarin orange
 2724
 Phytophthora nicotianae, tomato 4494
 Phytophthora palmivora, cacao 6359
 Phytophthora palmivora, papaya 8666
 Phytophthora parasitica 9972
 Phytophthora parasitica, radiate pine 4548
 Phytophthora parasitica, tobacco 9972
 Pithomyces chartarum, pasture 2004
 plant protection 375 378 383 384 2009 2790
 2794 2795 2796 2951 3218 4292 7206 7222
 plantifog 160 M, Lophodermium pinastri, pine
 1149
 plantifog 160 M, Lophodermium pinastri, Scots
 pine 1149
 Plasmodiophora brassicae, cabbage 2803 2804
 polychloro parathio phenols 1235
 poly(ethyleneimine S-alkyldithiocarbamates)
 5570
 potassium azide, Sclerospora sorghi, sorghum
 3575
 powdery mildew, plant protection 1101
 Primula acaulis saponin, Candida 2120
 1-propyl-1,2,4-triazolyl derivatives, plant
 protection 2018
 Pseudomonas mors-prunorum, stone fruit trees
 9958
 Pseudomonas syringae, stone fruit trees 9958

Fungicide(Contd),

Puccinia arachidis, peanut 8612
 Puccinia hordei, barley 1866
 Puccinia maydis, corn 2800
 Puccinia pelargonii-zonalis, pelargonium
 6364
 Puccinia sorghi, corn 9963
 Puccinia striiformis, wheat 7971
 pyran-carboxylic acid anilide derivatives,
 plant protection 8820
 pyrazole derivatives, plant protection 6368
 pyrazolium derivatives, plant protection
 2812 3581 4511
 pyrazolo-(thiono)-phosphoric(phosphonic)acid
 esters 509
 Pyricularia oryzae, rice 4486 4487 5419
 pyridazine derivatives, plant protection
 2019
 pyridine derivatives, plant protection 2823
 pyridinium derivatives, plant protection
 3583
 pyrimidine derivatives, plant protection
 2220 9978
 pyrone derivatives, plant protection 6366
 pyroxychlor, Phytophthora palmivora, ivy
 2745
 pyroxychlor, Phytophthora parasitica, Pilea
 imperialis 3518
 Pythium aphanidermatum, squash 4416
 Pythium irregulare, squash 4416
 Pythium, okra 9969
 Pythium ultimum, larkspur 2805
 Pythium ultimum, lentil 2789
 quaternary ammonium compound 2961
 quaternary ammonium compound, cosmetic 5603
 quaternary ammonium methylene phosphonates
 3731
 quinonemonoxime hydrazone derivatives, plant
 protection 7217
 radiate pine seed dressing, mycorrhiza 7989
 resistance, Botrytis cinerea, plant
 protection 4626
 resistance, Colletotrichum coffeanum, coffee
 2921
 resistance, fungi 5001
 resistance, phytopathogenic fungi 376 2001
 resistance, Rhizobium, legume seed treatment
 7273
 resmethrin, Erysiphe cichoracearum, cucumber
 4500
 resmethrin, Erysiphe cichoracearum, Zinnia
 4500
 resmethrin, Erysiphe lagerstroemiae,
 crademyrtle 4500
 resmethrin, Erysiphe polygoni, cowpea 4500
 resmethrin, Sphaerotheca humuli, Kalanchoe
 blossfeldiana 4500
 resmethrin, Sphaerotheca pannosa, rose 4500
 Rhizoctonia oryzae, rice 4486
 Rhizoctonia solani, cauliflower 1103
 Rhizoctonia solani, cotton 4523
 Rhizoctonia solani, lentil 2789
 Rhizoctonia solani/Pythium aphanidermatum,
 cucumber 380
 Rhizoctonia solani, squash 4416
 rhodanine derivatives 6514
 root rot fungi, pea 377
 Saccharomyces cerevisiae, Coulter Counter
 4668
 Sclerophthora rayssiae, corn 6356
 Sclerotinia borealis, bentgrass 8795
 Sclerotinia sclerotiorum, orange post-harvest
 decay 6318
 Sclerotium cepivorum, onion 7974
 Sclerotium oryzae, rice 284
 Sclerotium rolfsii, Caladium bicolor 8799
 Sclerotium rolfsii, peanut 9960
 Sclerotium rolfsii, Polyalthia tuberosa 8799
 Scots pine, Lophodermium pinastri 1146

Subject index

Fungicide(Contd),

seed dressing + dichloromethane, soybean 2031
 seed dressing, fungi, jute seed 2825
 seed dressing, *Fusarium oxysporum*, pea 1012
 seed dressing, *Helminthosporium sativum*, wheat 2032
 seed dressing, *Helminthosporium solani*, potato 7993
 seed dressing, medicinal plant 3569
 seed dressing, phospholane/phosphite derivatives 3576
 seed dressing, radiate pine, mycorrhiza 6382
 seed dressing, *Rhizobium*, cowpea 2029
 seed dressing, *Ustilago tritici*, wheat 5440
 seed treatment, bean 7990
 seed treatment, bottle gourd 8682
 seed treatment, *Colletotrichum lindemuthianum*, lablab 2824
 seed treatment, fungal diseases, sugarbeet 2034
 seed treatment, fungi, bean 1859
 seed treatment, fungi, soybean 1859
 seed treatment, *Fusarium culmorum*/*Drechslera sorokiniana*/*Rhizoctonia solani*, wheat 1120
 seed treatment, *Gneculodendron pyriforme*, Sitka spruce 7238
 seed treatment, *Phoma betae*, sugarbeet 8839
 seed treatment, *Phoma lingam*, cabbage seed 8837
 seed treatment, *Puccinia carthami*, safflower 9888
 seed treatment, pyroxychlor, *Phytophthora megasperma*, soybean 2030
 seed treatment, *Pythium ultimum*, cotton 9992
 seed treatment, *Rhizoctonia solani*, cotton 8836 9992
 seed treatment, *Rhizoctonia solani*, okra 9993
 seed treatment, *Rhizoctonia solani*, potato 2033
 seed treatment, safflower seed mycoflora 8838
 seed treatment, *Sclerotium cepivorum*, onion 7991
 seed treatment, *Sclerotium rolfsii*, lentil 4523
 seed treatment, *Ustilago nuda*, barley 6377
Septoria avenae, wheat 4488
Septoria leucanthemi, Killian daisy 3570
Septoria nodorum, wheat 4488 7899
Septoria tritici, wheat 1894 4488 7899 9964
 siccanin 7450
 slimicide 7345
 snow mould fungi, turfgrass 4485
 sodium o-phenylphenate, *Geotrichum candidum*, orange post-harvest decay 1972
Sphaerotheca fuliginea, cucurbit 4491
Sphaerotheca mors-uvae, blackcurrant 7905
 sprinkler irrigation system, *Alternaria solani*, potato 7970
Stagonospora boltshauseri, bean 2671
Stemphylium botryosum, lettuce post-harvest decay 4438
 straw/alfalfa degradation, soil microorganisms 8927
 sulphanimido-oxadiazole derivatives 10171
 sulphenylated oxime-carbamate derivatives 9003
 sulphonic acid esters 3724
 sulphonic acid esters, plant protection 3724
 sulphur-containing chlorobenzonitrile derivatives 8832
 sulphur-containing chlorobenzonitrile derivatives, plant protection 8832
 sulphur, *Erysiphe polygoni*, pea 8812
 sulphur, *Erysiphe polygoni*, sugarbeet 1108

Fungicide(Contd),

N-tetrachloroethyl-thio-4-cyclohexene-1,2-dicarboximide, *Peronospora destructor*, onion 8709
 tetramethylthiuram disulphide, soil microorganisms 4611
 tetrazolo-pyrimidine derivatives, plant protection 3584
 thiabendazole, *Cercospora personata*, peanut 4516
 thiabendazole, *Fusarium oxysporum*, sweetpotato 6373
 thiabendazole, guava post-harvest decay 2767
 thiabendazole + iodine complex, plant protection 5432
 thiabendazole + N-methyl-2-pyrrolidone, plant protection 5433
 thiabendazole, *Phoma exigua*, potato 7947
 thiabendazole, plant protection 2818
 thiadiazole derivatives, plant protection 3597
 1,3,4-thiadiazole urea derivatives, *Pythium aphanidermatum*, plant protection 3582
 thiadiazolo-benzimidazole derivatives 8081
 thiadiazolo-imidazole derivatives 10178
 thiazinium derivatives 3725
 thiazolidinone derivatives 2959
Thielavia terricola, sesame 381
 thioallophanate derivatives, plant protection 391 1111
 thiocarbamate/dithiocarbamate formamidines, plant protection 2013
 thiocyanate derivatives 5569
 thiocyanate xanthate derivatives 2972
 2-thiocyanomethylthiobenzothiazole, plant protection 5417
 thionosalicylic acid anilide derivatives, plant protection 3726
 thiophosphoric acid ester amide derivatives, plant protection 1117
 thioureidobenzene phosphates, plant protection 2014
 thiram, bean seed fungi 4301
 thiram, soil microorganisms 4611
 Tillex, *Fidigoporus lignosus*, teak 1158
 tolerance, *Macrophomina phaseoli*, amino acids 2922
 tolerance, *Sclerotinia homoeocarpa*, turfgrass 8796
 tolerance, *Tilletia caries*, wheat 7225
 tolerance, *Tilletia foetida*, wheat 7225
 topsin M, *Cercospora beticola*, sugarbeet 8823
 tri-2-norbornyltin derivatives, plant protection 6363
 triadimefon 3573
 triadimefon, plant protection, fungal resistance 3572
 triadimefon, *Ustilago avenae* 385
 triarimol 3573
 triarimol, plant protection, fungal resistance 3572
 triazenoimidazoles 1271
 triazine derivatives 10193
 triazine derivatives, plant protection 8821
 triazinedione derivatives, plant protection 1119
 triazino-benzimidazole derivatives, plant protection 3588
 triazole derivatives, plant protection 7207 7208 7209
 1,2,4-triazole derivatives, plant protection 8816 8818
 triazolo-benzothiazole derivatives, plant protection 7216
 triazolyl-0,N-acetal derivatives, plant protection 394
 triazolyl-phenyl-phenoxy-3,3-dimethyl-butan-2-one, plant protection 8817

Subject index

Fungicide(Contd),

trichloromethyl thioimide polymer, latex paint 2908
tridemorph, plant protection 5417
trifluoromethyl
phenyl-3-(3',5'-dicyanophenyl)urea 2140
trifluoromethylimine-benzo-heterocycle derivatives, plant protection 9979
bis-trifluoromethylimino-imidazolone derivatives, plant protection 8815
triforine 3573
triforine, plant protection 396 2813 2814 7212
triforine, plant protection, fungal resistance 3572
triforine, *Podosphaera leucotricha*, apple 3586
triforine seed treatment, *Erysiphe graminis hordei*, barley 2826
triforine, *Venturia inaequalis*, apple 3586
triorganotin compounds/triorganolead compounds 2129
triorganotin compounds/triorganolead compounds, plant protection 2129
triorganotin derivatives, plant protection 389
triphenyltin, *Cercospora beticola*, sugarbeet, benomyl resistance 5389
Typhula FW, bentgrass 8795
Uromyces phaseoli, snap bean 2798
Vega disinfectant 9232
versicolin, soil 8924
Verticillium dahliae, brinjal 4489
O-(2-vinylphenyl)-thiophosphate derivatives, plant protection 3577 4505
wheat leaf microflora 379
wood preservative 10033 10035
wood preservative, assay 10031
wood preservative, assay, contact agar-block method 10029
Xanthomonas pruni, stone fruit trees 9958
yam post-harvest decay 7948
zinc-maneb, *Puccinia graminis tritici*, wheat 8811
zinc-maneb, *Puccinia recondita tritici*, wheat 8811
zinc-maneb, *Septoria nodorum*, wheat 8811
zineb, *Alternaria cucumerina* spore leachates 1106
zineb, plant protection 5427
zineb, *Puccinia hordei*, barley 2003

Fungicidin,

yeasts 2170

Fungistasis,

Phytophthora, soil Actinomycetales 5481
Pythium, soil Actinomycetales 5481
soil 2862 5482 6419 6420 7258 8017
soil, Curvularia lunata/Fusarium nivale 2061
soil, Fusarium oxysporum, flax 10053
soil, Fusarium solani, bean 9757
soil, methyl bromide 4610
soil, microbial ethylene 2861
soil, rhizosphere 3626

Fungistat,

1256
amphotericin B + doxycycline, *Candida albicans* 5646
amphotericin B + rifampicin, *Candida albicans* 5646
benomyl, *Fusarium oxysporum* 10177
2-benzamido-5-nitrothiazole derivatives 514
benzamido-5-nitrothiazole derivatives 2121
benzimidazole derivative +
2-(thiocyanomethylthio)-benzothiazole seed treatment, plant protection 9994
benzisothiazolin-3-one derivatives 534
sec-butylamine, *Penicillium digitatum* 3709 3710
epsilon-caprolactam + alkanediamine derivatives 2149

Fungistat(Contd),

cyclohexylamine derivatives, paper products 10091
debaricidine, *Candida albicans*/Debariomyces klockeri 1412
diaper 5817
fatty acids 10167
5-fluorocytosine, *Aspergillus fumigatus* 5574
5-fluorocytosine, *Aspergillus niger* 5574
garlic extract 10169
gentian violet, poultry feed 956
insecticide, *Fusarium graminearum*, zearalenone 2636
nitrothiazole derivatives 1269
Rosa chinensis extract, gallic acid 6507
tetrahydro-1,3,5-thiadiazine-2-thiones 1236
thiadiazolo-benzimidazole derivatives 8081
thiadiazolo-imidazole derivatives 10178

Funiculosin,

7429

Furacin,

Escherichia coli 3671
resistance, *Escherichia coli* 3671

Furadan,

maize chlorotic dwarf virus, corn 364
maize dwarf mosaic virus, corn 364

Furagin,

bile system microflora 2995
Staphylococcus 1309 3001

Furan,

derivatives, fungicide, plant protection 7982
lung-toxic, fungal, sweet potato 7827
resistance, *Escherichia coli* 6475
resistance, *Salmonella* 6475
resistance, *Salmonella saint-paul* 6475
resistance, *Staphylococcus aureus* 6475

Furan-2-acetic acid,

derivatives, *Pseudomonas*, 3-methylbenzoate + methylcatechol 8943

Furan-3-carboxamide,

derivatives, fungicide, plant protection 1112

Furan glue,

fungal degradation 905

Furancarbamid acid ester,

antibacterial agent/antifungal agent 2143

Furazolidine,

resistance, coliforms, food 6028
resistance, *Escherichia coli*, food 6028

Furazolidone,

bile system microflora 2995
Escherichia coli 1304
Proteus 1304
Pseudomonas aeruginosa 1304
resistance, *Salmonella* 8948
Salmonella paratyphi 559
Salmonella typhi 559
Shigella + *Candida albicans* 5631
Staphylococcus 1304
Vibrio cholerae, antibiotic sensitivity testing 9046

Furoazepinone,

nitro-derivatives, antibacterial agent 4665

Furoic amide,

derivatives, fungicide, plant protection 8813

Furunculosis,

fish, *Aeromonas salmonicida*, immuno-India ink method 9267

Fusarenone-X,

animal mycotoxins 3427

Fusaric acid,

Fusarium oxysporum, melon, soil potassium 7923
Fusarium solani, insecticide 9713

Fusariol,

Operculella padwickii 1100

Fusarium,

2-amidocarbonylthiobarbituric acids 2027

Subject index

Fusarium(Contd),

alfalfa 9751
 ammonium/potassium isocyturates 1257
 asparagus, DD-MENCS soil fumigation +
 fungicide 9965
 banana post-harvest decay 4433
 barley 6203
 barley seed, beer 7697
 bean seed 4301
 benzimidazole-1-carboximidic acid esters
 1116
 biomass/protein, ethanol 2428
 biomass/protein, methanol 2428
 bis-trifluoromethyl-imine-imidazolone
 derivatives, plant protection 5429
 epsilon-caprolactam + alkanediamines 2318
 carbon substrate degradation 9521
 carboxyanilidofuran derivatives, plant
 protection 7982
 cellulase, carboxymethylcellulose medium
 3948
 chilli, plant protection 7145
 corn 6203 8638 9786
 cosmetic 7354
 cotton 1923
 cotton seed 2737
 cutting fluid, isolation media 477
 12,13-epoxytrichothecene derivatives 975
 F-2 toxin, 4-methoxy-benzene-diazonium
 fluoroborate method 990
 food 7718
 fusaric acid, plant disease 9714
 Gramineae, culture medium 8295
 Leguminosae root/rhizosphere 2865
 lyophilisation preservation 7584
 mycotoxins 973 2619
 mycotoxins, animal mycotoxins 3427
 nitroperhydropridodiazepine derivatives
 2976
 pea 9766
 peanut, fungicide 266
 pistachio nuts, soil 5276
 ponderosa pine, soil treatment 6391
 protein, food 2563
 quaternary ammonium compound 2961
 rice rhizosphere, pesticides 8916
 safflower, seed treatment fungicide 8838
 sesame phylloplane 1949
 soil 3632
 soil, dimethylselenide 4144
 soil, fungistasis 5482
 soil, fungistasis, ethylene 2861
 soil, nematode 3653
 soil, subsoiling 10038
 soybean 5311 9769
 soybean seed 4310
 sugarbeet, fungicide seed treatment 2034
 sunflower 9943
 sunflower seed 1957
 2-thiocyanomethylthiobenzothiazole 5417
 toxins, animal feed 972 9722
 triazine derivatives, plant protection 8821
 triazino-benzimidazole derivatives, plant
 protection 3588
 Trichothecenes 7808
 wheat 4315 6233 9805
 wheat, biological control, soil microflora
 371
 wheat rhizosphere 3636
 wheat, soil 8882
 wheat, soil straw 5334
 zearalenone, barley grain 2638
Fusarium acuminatum,
 wheat 4349 6234
Fusarium aqueductum,
 beech 1155
Fusarium avenaceum,
 acylase, 7-aminocapthalosporanic acid
 derivatives 2207
 barley 8621

Fusarium avenaceum(Contd),

bean proteinase inhibitor 2792
 cereal, diallate 269
 cereal, soil 7876
 Fusarium 274
 laburnum 7919
 lupin 5304
 pea 9766
 potato,
 rishitin/phytoberin/solavetivone/desacetylph
 ytoberin, assay 3567
 rice seed 1880
 soil, fungistasis, methyl bromide 4610
 wheat 6233 8621
 wheat, phenyl mercuric acetate seed treatment
 6378
 zearalenone, barley grain 2638

Fusarium caeruleum,

pyridine derivatives 2823

Fusarium camptoceras,

wheat soil 8882

Fusarium chlamydosporum,

virus-infected papaya 9838

Fusarium coeruleum,

potato, pectinmethylesterase,
 polygalacturonase, cellulase, protease 8718

Fusarium concolor,

cowpea seed 1848

Fusarium culmorum,

acetylenic sulphones 512

barley 8621

barley seed 2687

bean proteinase inhibitor 2792

cereal, diallate 269

cereal, soil 7676

culmorin 6958

cyclonerodiol 83

cyclonerotriol 83

F-2 toxin, goose feed 3429

F-2 toxin, medium 6144

fungicide, plant protection 7206

Fusarium 274

oat, biological control 1094 7202

oat, seed treatment fungicide 1120

pea 9766

perennial ryegrass 2708

perennial ryegrass rhizoplane, chloropicrin
 457

exo-polygalacturonate lyase 7648

pyrimidine derivatives 2020

soil fungistasis, theoretical colonization
 index 2862

toxins, animal feed 9722

wheat 6234 8621 8653

wheat, 2-aminopyrimidine derivatives 395

wheat, biological control 109 7202

wheat, phenyl mercuric acetate seed treatment
 6378

wheat, seed treatment fungicide 1120

zearalenone 9723

zearalenone, barley grain 2638

Fusarium episphearia,

wheat soil 8882

Fusarium equiseti,

auricula tree 1837

equisetin 1416

fennugreek seed 1017

giant witchweed 9866

tomato fruit rot 3545

Trigonella corniculata seed 1017

wheat 4349

Fusarium fusaroides,

wheat 6233

wheat soil 8882

Fusarium gramineum,

barley 8621

cereal, diallate 269

corn 9789

corn, resistance 6406

Subject index

Fusarium graminearum(Contd),

F-2 toxin, medium 6144
protein, food 2563
toxin, animal feed 1799
toxins, barley, animal feed 5262
wheat 1041 8621
zearalenone 9723
zearalenone, barley grain 2638
zearalenone, dichlorvos 2636
zearalenone, insecticide 2636
zearalenone, naled 2636 2637

Fusarium heterosporum,

Claviceps purpurea honeydew, biological control, barley 4323

wheat 6233

Fusarium javanicum,

wheat 6233

Fusarium lateritium,

cockscorn 311

wheat soil 8882

Fusarium lunulosporum,

grapefruit post-harvest decay 8753

Fusarium lycopersici,

tomato, rishitin 8789

Fusarium merisporoides,

beech 1155

Fusarium moniliforme,

2,5-dihydroxy-1,4-benzoquinones 8082

+ Gibberella zeae/Helminthosporium

carbonum/Nigrospora oryzae/Sclerotium

bataticola, corn 9787

Amorphophallus campanulatus 5365

antibiotic A-26771 1390

banana post-harvest decay 7186

cereal, diallate 269

cocoyam post-harvest decay 9913

corn 6214 7882 8635 8638 8639 9789

corn kernels 6217

corn, mycotoxins 9790

corn, resistance 6406

cowpea seed 1848

diallyl-disulphide 388

Egyptian clover 9762

endopolygalacturonase/pectinmethylesterase 1631

Fusarium 274

garlic oil 388

gibberellic acid, whey filtrate medium 4117

gibberellin 8402

gibberellin, oat 278

jute seed, seed dressing fungicide 2825

(-)-kaurenal 7689

large cardamon 4224

maize 4332

mango 3495

okra 6277

oxadiazolidine-3,5-dione derivatives 1115

pineapple 5383

plant rhizosphere 2856

poultry feed, gentian violet 956

rice 9798

rice seed 1880

soybean 4311

toxin, sorghum 1884

toxins, animal feed 9722

wheat 6233

wheat soil 8882

zearalenone, barley grain 2638

zearalenone, corn 7840 7841

Fusarium nivale,

bentgrass, fungicide 8795

benzimidazole derivative +

2-(thiocyanomethylthio)-benzothiazole seed treatment fungistat, plant protection 9994

fennel rhizosphere, subamycin 2863

fungicide, plant protection 7206

Italian ryegrass 8641

perennial ryegrass 2708

phospholane/phosphite derivatives 3576

Fusarium nivale(Contd),

rose flowers, gallic acid 3072

rye 4315

soil fungistasis 2061

toxins, animal feed 9722

triorganotin compounds/triorganolead compounds 2129

turfgrass, fungicide 4485

wheat 4315 7893

wheat, antifungal agent 9962

wheat, phenyl mercuric acetate seed treatment 6378

zearalenone, barley grain 1638

Fusarium orthoceras,

gram 7871

gram phyllosphere, Uromyces ciceris-arietini,

gram 3465

Fusarium oxysporum,

2,5-dihydroxy-1,4-benzoquinones 8082

+ Meliodogyne javanica, ninde 2750

acid peat bog 10039

aculeacins 8175

banana 6241

benomyl 10177

bikaverin 5129

carnation, benomyl 2022

cellulase, potassium, melon wilt 7154 7922

chilli, fungicide 4490

corn, insecticide degradation 1758

cotton 2738 4384 8688

cotton, resistance 8688

cucumber, resistance 7955

Curcuma zedoaria extract 3695

diacetoxyscirpenol, safflower seeds 7839

diallyl-disulphide 388

dihalo-sulphonate derivatives, plant

protection 7979

Douglas fir, soil 2832

English boxwood 10011

enniatin B 3806

12,13-epoxytrichothecene, safflower seeds 7839

Eruca sativa 4388

ethylene 6959

fenugreek seed 1017

flax, soil antifungal agent 365

flax, soil fungistasis 10050

formamide derivatives, plant protection 7336

fungus oospore parasite, soil 8881

fungicide 4484

Fusarium 274

garlic oil 388

ginger 313

ginger, fungicide 2007

beta-glucosidase 2471

gram phyllosphere, Uromyces ciceris-arietini, gram 3465

guanidine derivatives 8041

isothiocyanate derivatives 3722

Kentucky bluegrass 8641

lemon post-harvest decay, fungicide 9916

lipooxygenase-like enzyme 2477 2478

lung-toxic furans, sweet potato 7827

lupin 3304

lupin, plant protection 6341

Lycopersicon 6310

Lycopersicon, resistance 6310

melon 4393

melon, dextranase 1835

melon, foliar nutrient sprays 2065

melon, soil potassium 7923

muskmelon 1068 2748

narcissus 7924

narcissus, formaldehyde + hot water 7978

oil palm 7925

oil palm, potassium chloride 397

okra 6277

okra, soil treatment 9969

Oxalis, onion 6280

passionflower, toxin 7828

Subject index

Fusarium oxysporum (Contd),

pea 2678 4307
 pea, biological control 5412
 pea, pea mosaic virus 7872
 pea, resistance 1011
 pea, resistance testing 4329
 pea seed 1856
 pea seed, seed dressing 1012
 peanut 6192
 pectin transeliminase, potassium, melon wilt 7154 7922
 N-phenyl maleic imide derivatives 393
 phospholane/phosphite derivatives 3576
 phosphoryl phenyldiamine derivatives 1118
 pigeon excrement, stone degradation 4183
 pigeon pea 7873
 plant disease 2656
 polynalacturonase, plant cell walls 5969
 polynalacturonase, potassium, melon wilt 7154 7922
 polynalacturonate transeliminase, potassium, melon wilt 7154 7922
 potato 8719
 protein, food 2562
 protopectinase, potassium, melon wilt 7154 7922
 pumpkin 4411
 pyridinium derivatives, plant protection 3543
 quinonemonoxime hydrazone derivatives, plant protection 7217
 radish 7167
 safflower, raniferin seed treatment 7992
 sesame, fungicide 9959
 soil, cadmium 2016
 soil, cotton 7867
 soil, fungistasis 6419 6420
 soil, fungistasis, methyl bromide 4610
 soil fungistasis, theoretical colonization index 2862
 soil, pea 7867
 soil, plant disease 6418
 soybean 5311
 spinach, plant protection 1951
 squash 4416
 strawberry 2758
 Streptomyces volatile compounds 8986
 sugarbeet seed 332
 sunflower 6300
 sweet potato 2760
 sweet potato, benomyl/thiabendazole 6373
 sweet potato, resistance 8777
 T-2 toxin, safflower seeds 7839
 thiabendazole, plant protection 2818
 thiourea 8592
 tomato 4426 6310 6311 9904
 tomato, fungicide 378
 tomato, beta-1-4-endo-glucanase 7942
 tomato, nematode 8742
 tomato, plant protection 5392
 tomato, resistance 3561 6310 7959 8781 9946 9948
 tomato, resistance, nematode 1992
 triorganotin compounds/triorganolead compounds 2129
 watermelon, resistance 3562
 wheat, fungicide 2801
 wheat soil 8882

Fusarium poae,

2,5-dihydroxy-1,4-benzoquinones 8082
 barley 8621
 carnation 1916
 fennel rhizosphere, subamycin 2863
 mycotoxins 2619
 pigeon pea rhizosphere 6422
 pipe, formalin fumigation 6453
 Streptomyces volatile compounds 8986
 T-2 toxin 1811 7075
 toxins, animal feed 1799 9722
 wheat 8621

Fusarium redolens,

oil palm kernels 4220

Fusarium robustum,

Araucaria angustifolia 7998

Fusarium roseum,

see also Ciberella zeae
 alfalfa 6174
 corn 8638
 corn, pig feed 3414
 deoxynivalenol, animal feed 2620
 diacetoxyscirpenol, animal feed 2620
 F-2 toxin, animal feed 972
 fennel rhizosphere, subamycin 2863
 Fusarium 973
 Fusarium solani 1646
 grapevine, maneb 390
 monacetoxyscirpenol, animal feed 2620
 okra, soil treatment 9969
 phospholane/phosphite derivatives 3576
 pigeon pea rhizosphere 6422
 octato post-harvest decay 351
 pumpkin 4411
 red clover 6174
 soybean 5311
 spinach, plant protection 1951
 T-2 toxin, chicken feed 7826
 wheat 7892 9806
 wheat soil 8882
 white clover 6174
 zearealene, animal feed 2620
Fusarium sambucinum,
 zearealene, barley grain 2638
Fusarium semitectum,
 acylase, 7-aminocephalosporanic acid derivatives 2207
 Egyptian clover 9762
 jute seed, seed dressing fungicide 2825
 okra 6277
 soybean 4311
 sunflower seed 1957
 wheat 4349
 wheat grain 9804

Fusarium solani,

2,5-dihydroxy-1,4-benzoquinones 8082
 agrimycin 10247
 Aleo vera 1837
 alfalfa 7108
 alfalfa, resistance 7108
 apricot 8661
 aureofungin 10247
 Austrian pine, Bacillus subtilis seed treatment 10001
 banana post-harvest decay 7187
 bean 1842 8604
 bean, kievitone 8786
 bean proteinase inhibitor 2792
 bean, resistance 8763 8764 9926
 bean, soil, fungistasis 9757
 cellulase, cellulose 5927
 cellulase, cellulose degradation, sugar 5925
 cereal, soil 7876
 cocoyam post-harvest decay 9913
 corn 8635
 fusaric acid, insecticide 9713
 Fusarium roseum 1646
 glaucine transformation 6954
 kievitone 2000
 lentil, plant protection/fungicide 2789
 luno-toxic furans, sweet potato 7827
 lupin 5304
 melon 3516
 oil palm kernels 4220
 okra 6277
 okra, soil treatment 9969
 omnamycin 10247
 onion post-harvest decay 8755
 osmotic water potential 5461
 papaya 8665
 Parthenium hysterophorus extract 2932
 pea 3466

Subject index

- usarium solani(Contd),**
 - pea, histones 9954
 - peanut 6192
 - pimaricin 10247
 - potato, resistance 8758
 - potato, rishitin/lyubimin 4495
 - potato, scopolin 3522
 - progesterone transformation,
 - androsta-1,4-diene-3,17-dione,
 - 1-dehydrotestolactone 5981
 - progesterone transformation,
 - androstadienedione 7670
 - protein, food 2563
 - replica plating 8296
 - sainfoin 4308
 - sainfoin, resistance 7200
 - soil fungistasis 7258
 - soil, fungistasis, methyl bromide 4610
 - soil fungistasis, theoretical colonization
 - index 2862
 - soil, membrane filter, scanning/transmission
 - electron microscopy 2869
 - soil pesticide/herbicide, soil 10073
 - soil, plant disease 6418
 - soybean 5311
 - spinach, plant protection 1951
 - squash 4416
 - streptomycin 10247
 - T-2 toxin 3439
 - terramycin 10247
 - vancomycin 10247
 - wheat 6233
 - wheat soil 8682
- usarium splendens,**
 - Gloeophyllum sepiarium oospolactone 2538
- usarium sporotrichiella,**
 - sporofusarin 4270
- usarium sporotrichioides,**
 - mycotoxins 2619
 - T-2 toxin 1811 7075
 - T-2 toxin, goose feed 3429
- usarium stilboides,**
 - coffee 4383
- usarium sulphureum,**
 - chlamydospores 5858
- Leguminosae root/rhizosphere 2865
- lubimin, 15-dihydrolubimin, potato 7967
- potato, pectinmethylesterase,
 - polygalacturonase, cellulase, protease 8718
- wheat 6234
- usarium trinctum,**
 - barley 8621
 - soybean 5311
 - T-2 toxin, animal feed 972
 - T-2 toxin, chicken feed 7836
 - wheat 8621
 - wheat soil 6882
- usarium udum,**
 - diallyl-disulphide 388
 - garlic oil 388
 - pigeon pea rhizosphere 6422
 - pigeon pea, soil 1858
- usarium vasinfectum,**
 - cotton 312
- usarium xylarioides,**
 - coffee 4383
 - tomato fruit rot 3545
- usarium zeae,**
 - zearalenone, chicken feed 1769
 - zearalenone, Japanese quail feed 1769
- uscular blight,**
 - Xanthomonas phaseoli, bean, antibacterial
 - agent 4522
- usel alcohol,**
 - yeast, alpha-keto acid decarboxylase, alcohol
 - dehydrogenase 6017
- usel oil,**
 - fermentation, gas chromatography 92
 - home-made beer/wine 2546
- Fusel oil(Contd),**
 - wine yeasts, alcohol dehydrogenase 3358
- Fusicladium,**
 - benzimidazole-1-carboximidic acid esters
 - 1116
 - triazino-benzimidazole derivatives, plant
 - protection 3588
- Fusicladium effusum,**
 - pecan, benomyl 4519
- Fusicladium radiosum,**
 - aspen 2046
- Fusicoccin,**
 - Fusicoccum amygdali 5735
 - Fusicoccum amygdali, almond 3492
 - Fusicoccum amygdali, tobacco tissue culture
 - 7066
 - plant disease 9714
- Fusicoccum amygdali,**
 - fusicoccin 5735
 - fusicoccin, almond 3492
 - fusicoccin, tobacco tissue culture 7066
 - stone fruit trees 9817
- Fusidic acid,**
 - assay, Bacillus stearothermophilus 4719
 - Corynebacterium minutissimum 1306
 - Corynebacterium parvum 1306
 - Propionibacterium acnes 1306
 - Propionibacterium avium 1306
 - Propionibacterium granulosum 1306
 - resistance, Staphylococcus aureus 2927 7302
- Fusidin,**
 - Fusidium coccineum 9136 9137
 - Streptococcus faecalis 3003
- Fusidium coccineum,**
 - 237
 - fusidin 9136 9137
- Fusiformis,**
 - Tribrissen (sulphadiazine +Trimethoprim)
 - 2939
- Fusobacterium,**
 - antibiotics 2994
 - blood agar medium 3956
 - cephalosporins 3010
 - continuous culture, hydroxyapatite-coated
 - glass beads 6767
 - culture medium, antibiotic sensitivity
 - testing 6764
 - josamycin 640
 - josamycin/rosamicin/clindamycin 2190
 - penicillins 3010
 - phosphomycin 3074
 - preservation 4703
 - roll-streak method 1556
 - thiamphenicol/chloramphenicol 9096
- Fusobacterium fusiforme,**
 - cefoxitin/cephalothin 10273
- Fusobacterium mortiferum,**
 - antibiotic sensitivity testing 2165
 - tests, impregnated disc method 10548
- Fusobacterium necrophorum,**
 - see also Sphaerophorus necrophorus
 - antibiotic sensitivity testing 2165
 - antibiotics 10243
 - antibiotics resistance 10243
- Fusobacterium nucleatum,**
 - antibiotic sensitivity testing 2165
 - lipopolysaccharide, lipid A 3330
 - modified plate holding system 10547
 - tests, impregnated disc method 10548
- Fusobacterium prausnitzii,**
 - urease assay 8271
- Fytolan,**
 - Alternaria trititica, wheat 1102
 - Ascochyta rabiei, gram 2799
 - Macrophomina phaseolina, papaya 2802
 - Operculella padwickii 1100
 - Rhizobium/Rhizobium + mung bean 3649
 - Sclerophthora rayssiae, corn 6356
 - Thielavia terricola, sesame 381

Subject index

- Gabaculine,**
Streptomyces toyocaensis 8429
- Gadus morhua,**
 gamma-irradiation preservation 6128
 viscera, silage, propionic acid + formic acid preservation 9648
- Gaeumannomyces graminis,**
 see also *Ophiobolus graminis*
 barley, resistance 355 356
 biological control, soil microflora 368
 soil 435
 Triticaceae, resistance 355
 wheat 9807
 wheat, biological control, soil microflora 368
- Gaeumannomyces graminis avenae,**
 Gramineae, biological control, *Phialophora radiculicola* 370
- Gaeumannomyces graminis graminis,**
 biological control, *Gaeumannomyces graminis avenae*, Gramineae 370
 biological control, *Gaeumannomyces graminis tritici*, Gramineae 370
- Gaeumannomyces graminis tritici,**
 Gramineae, biological control, *Phialophora radiculicola* 370
 wheat, biological control, *Phialophora radiculicola* 370
 wheat rhizosphere, fumigation 458
- Gaffkya tetragenae,**
 iodopolymers 1258 1259
 magnesidin 3810
 beta-ursolic acid 6532
- endo-beta-1,4-galactanase,**
Sclerotinia sclerotiorum, plant cell walls/tissues 9390
- Galactokinase,**
Bifidobacterium bifidum 5943
Saccharomyces cerevisiae 6888
- Galactomannan,**
 gum guar, degradation, *Bacillus* 5191
 locust bean gum, degradation, *Bacillus* 5191
- Galactose,**
Bacillus, locust bean gum degradation 5191
 cheese whey fermentation 8489
 microorganisms, beta-galactosidase 9444
Yersinia enterocolitica lipopolysaccharide 6935
- D-Galactose,**
 4-O-methyl-, *Rhizobium* polysaccharide 2511
- Galactose-binding protein,**
Escherichia coli 5033
- Galactosidase,**
 immobilization 4057
 immobilization, microorganisms 2
- alpha-Galactosidase,**
Absidia griseola 842
Bacillus 3271 5945
Escherichia coli 841 1651
 fungal 9391
 microbial 5944
Micrococcus 3271 5945
Mortierella vinacea,
 p-nitrophenyl-alpha-D-galactopyranoside hydrolysis 3272
Penicillium duponti 3273 8362
- beta-Galactosidase,**
Arthrobacter 8361
Aspergillus niger, low-lactose milk/milk product 7738
Aspergillus oryzae 6889
Enterobacter liquefaciens, dairy effluent treatment 3115
Escherichia coli 7624
Escherichia coli, low-lactose milk/milk product 7738
Escherichia coli, penicillin G immunoassay 4762
 fungal, lactose-free milk 8486
- beta-galactosidase(Contd),**
 immobilised, *Curvularia inaequalis* 6890
Kluyveromyces fragilis, low-lactose milk/milk product 7738
Macrophomina phaseoli 28
 microbial 840
 microorganisms, galactose 9444
Saccharomyces fragilis, low-lactose milk/milk product 7738
Sclerotium tuliparum 29
Serratia atypique, dairy effluent treatment 3115
Streptococcus 6646 K 1632
Streptococcus ourans 27
Streptococcus faecalis 27
Streptococcus faecium 27
Trametes versicolor, whey 1621
- endo-beta-Galactosidase,**
Escherichia freundii 4088
- beta-Galactosidase inhibitor,**
Streptomyces alboverticillus pyridindolol 5155
- Galerina autumnalis,**
 alpha-amanitin 5278
 beta-amanitin 5278
- Galirubins,**
Streptomyces galilaeus 10369
- Gall,**
Sphaeropsis tumefaciens, Natal-plum 5380
- Gall mite,**
 blackcurrant reversion virus, blackcurrant 3503
- Galleria mellonella,**
Bacillus thuringiensis insecticide, beecomb 3442
Serratia marcescens protease 6917
- Gallic acid,**
Rosa chinensis, antifungal agent 6507
 rose flowers, antifungal agent 8072
- Galvezia speciosa,**
 broad bean wilt virus 7104
- Game,**
 meat, bactericide, hypochlorous acid 965
 meat, hygiene 10499
- Game hen,**
 smoked Cornish, microbiology, cooking/brining 169
- Gamma-irradiation,**
Aspergillus flavus, food preservation 213 214
 papaya, post-harvest decay 4442
- Gangrene,**
Phoma exigua, potato, fungicide 7947
Phoma exigua, potato post-harvest decay 1973 1974 4444
- Garamine,**
 antibiotic J1-20A 615
 derivative, antibacterial agent 8182
 derivatives 612 616
 gentamicin B 615
 gentamicin X2 614
 gentamicin X2/gentamicin X2 derivatives 613
- Garden loosestrife,**
 cucumber mosaic virus 8705
- Gardimycin,**
Actinoplanes garbadinensis 1417 1418
Actinoplanes garbadinensis, antibacterial agent 1419
Actinoplanes liguriae 1417 1418
Actinoplanes liguriae, antibacterial agent 1419
 antibacterial agent 6638
- Garlic,**
 antibacterial agent 10143
 carlavirus 6248
Cladosporium echinulatum 6268
 extract, fungicide/fungistat 10169
 oil, antifungal agent, plant protection 388
 potyvirus 6248

Subject index

Garlic(Contd),

rhizosphere microorganisms, root treatment 8871

Garlic juice,

antifungal agent 8987

Garlic mosaic virus,

garlic 6248

Garri,

cassava fermentation, microorganisms 8451

Gas,

bacteria, filter 3950

cattle dung fermentation 9190

North Sea, fermentation, microbial protein,

gas flow measurement 2542

sterilisation, membrane filtration 10213

waste, deodorisation, compost 8221

Gas-bubble probe,

beer density 1701

Gas-exchange,

Candida utilis fermentation, computer 3354

Gas oil,

Aeromonas, biomass 7291

Azotomonas, biomass 7291

Brevibacterium, biomass 7291

fungicide, quaternary ammonium compound 2961

Mycococcus, biomass 7291

Protaminobacter, biomass 7291

Gas Pak,

anaerobic organism isolation 1557

GasKit disposable hydrogen and carbon dioxide generator,

anaerobic bacteria culture 4933

Gasoline,

lake water, microbial degradation 8940

lake water microorganisms 8940

microbial degradation, polluted water 481

GasPak system,

modified plate holding system, anaerobic

bacteria 10547

Gastric juice,

Staphylococcus enterotoxin, radioimmunoassay 4278

Gastric juice inhibitory substance,

Streptomyces bototropensis 885

Gauze pad,

enterovirus, sewage/water 6709

Gel,

polyacrylamide, isoelectric focusing,

Mycoplasma proteins 3211

Gel filtration,

Clostridium perfringens toxin 993

Gelatinase,

Bacillus mesentericus 5064 7625

Bacillus mesentericus, culture medium 6691

Clostridium perfringens exotoxin 8581

microbial, soil, urea 3657

Gelatine,

hydrolysis, microorganisms, food 8470

pharmaceutical, quality control, membrane

filtration 9022

proteolysis, Pseudomonas denitrificans,

alkane 10100

Salmonella, pre-enrichment medium 7723

Gelatine capsule,

lyophilised dairy starter bacteria

preservation 7359

Geldanamycin,

10264

Streptomyces hygroscopicus 7423

General resistance,

plant, microbial disease 5403

Genetic engineering,

5823 10512

Genetic manipulation,

microorganisms 7594

nitrogen fixation 8893

Genetic marker,

amantadine resistance, influenza virus 10115

Genetic recombination,

microorganisms 10513

Genetics,

Bacillus, phages, soil 429

industrial microorganisms 4024

microbial 794 3155

microbial plant disease 6162

microorganisms 5823 5873 5880

mushroom 3410

Saccharomyces cerevisiae 4986

Genetron-23,

Escherichia coli 10139

Geniculodendron pyrifforme,

Sitka spruce 7238

Genistein,

red clover, Sclerotinia sclerotiorum/Botrytis cinerea 1846

Gentamicin,

2993 10258

1-N acyl derivatives, antibacterial agent 5643

+ ampicillin, Streptococcus group D 5634

+ ampicillin, Streptococcus viridans 5634

+ azlocillin, antibacterial agent 7383

+ carbenicillin, Acinetobacter calcoaceticus 9051

+ carbenicillin, antibacterial agent 7383

+ carbenicillin, Serratia marcescens 4743

+ cephalothrin, antibacterial agent 6555

+ cephalothrin, Klebsiella 4723

+ chloramphenicol, Bacteroides fragilis 10261

+ chloramphenicol, Escherichia coli 10261

+ chloramphenicol, Klebsiella 4723

+ clindamycin, Bacteroides fragilis 10261

+ clindamycin, Escherichia coli 10261

+ beta-lactam antibiotic, antibacterial agent 7382

+ mezlocillin, antibacterial agent 7383

+ nafcillin/oxacillin/methicillin,

Streptococcus group D 5642

+ nalidixic acid, Proteus mirabilis,

microdilution transfer plate technique 5627

+ penicillin G, Listeria monocytogenes 5641

+ penicillin, Streptococcus group D 5634

+ penicillin, Streptococcus viridans 5634

+ pirbenicillin/carbenicillin/BL-P1654,

Pseudomonas aeruginosa 6556

+ vancomycin, Streptococcus group D 5634

+ vancomycin, Streptococcus viridans 5634

aminocyclitol analogues, Micromonospora

purpurea, antibacterial agent 6599

antibacterial agent 563 2186 2189 3755 3757

3758 4721 4740 4741 5684 5750 5751 5652

6563 6564 6644 7384 7385 7386 7387 8130

9032 10241 10260 10393

antibacterial agent, antibiotic sensitivity

testing 9035

antibacterial agent,

virus/Chlamydia/Rickettsia cell culture 611

antibiotic sensitivity testing, anaerobiosis

6547

assay, Escherichia coli aminoglycoside

2-adenyltransferase 2183

assay, Escherichia coli gentamicin adenine

mononucleotide transferase 8363

assay, haemagglutination-inhibition 5683

assay, Klebsiella 10314

assay, Klebsiella edwardsii ATP-firefly

luminescence 10225

bacteria 10257

Bacteroides fragilis 10261

bile system microflora 2995

blood agar, Streptococcus pneumoniae

isolation medium 10603 10604

carbenicillin 1297

Corynebacterium minutissimum 1306

Corynebacterium parvum 1306

derivatives, antibacterial agent 3755

Enterobacter aerogenes 1214

Subject index

Gentamicin(Contd),

Enterobacter cloacae 2993
 Enterobacteriaceae 2184 2185
 Enterobacteriaceae, antibiotic sensitivity testing 4720
 Escherichia coli 1214 1304 2993 7368 10257 10261
 Escherichia coli, electron microscopy 4722
 Escherichia coli, salt antagonism 4742
 gentasol, antibacterial agent 1371
 Haemophilus parainfluenzae 8115
 hydroxypropyl methylcellulose artificial tear solution 4712
 Klebsiella 4723 7368
 Klebsiella pneumoniae 1214 2993
 Listeria monocytogenes 5629
 Micromonospora purpurea 1370 2171 10312
 Micromonospora purpurea, antibacterial agent 9090
 Micromonospora purpurea, culture medium 9091
 Micromonospora purpurea, streptomycin resistance 9092
 minibag/minibottle antibiotic admixtures, stability 9030
 Mycobacterium 7388
 Neisseria gonorrhoeae 5527 8118
 Pasteurella pestis, mutagen 10317
 polyanionic detergents 7389
 Propionibacterium acnes 1306 5630
 Propionibacterium avidum 1306
 Propionibacterium granulosum 1306
 Proteus 1304 2993 7368
 Proteus mirabilis 1214
 Providencia 2993
 Pseudomonas aeruginosa 564 1214 1304 1321 2184 2185 2993 3749 4726 6550 6566 6657 7368 10245 10257
 Pseudomonas aeruginosa, antibiotic sensitivity testing 4720 8116
 Pseudomonas aeruginosa phagocytosis, rabbit polymorphonuclear leukocytes 2998
 Pseudomonas aeruginosa, salt antagonism 4742
 Pseudomonas pseudomallei 8117
 pyocin, Pseudomonas aeruginosa 8191
 resistance, Acinetobacter 6484
 resistance, Acinetobacter calcoaceticus 6484
 resistance, bacteria 3758 4721 8958
 resistance, coliforms, food 6028
 resistance, Enterobacter 6484
 resistance, Escherichia coli 6474 8050
 resistance, Escherichia coli, food 6028
 resistance, Escherichia coli, R factor 8052
 resistance, Herellea 6484
 resistance, Herellea vaginicola 6484
 resistance, Klebsiella 5526 6474 6484
 resistance, Klebsiella pneumoniae 6485 6486
 resistance, Klebsiella pneumoniae, R factor 8944
 resistance, Klebsiella, R factor 8052
 resistance, Neisseria gonorrhoeae 5527
 resistance, Proteus 6484
 resistance, Proteus rettgeri 1201 4643
 resistance, Pseudomonas 6484
 resistance, Pseudomonas aeruginosa 5537 6484
 resistance, Pseudomonas aeruginosa, + heavy metals resistance 7294
 resistance, Pseudomonas aeruginosa, R factor 7308
 resistance, Salmonella 7300 8948
 resistance, Salmonella typhimurium 6477
 resistance, Serratia marcescens 4743
 resistance, Serratia marcescens, R factor 8052
 resistance, Staphylococcus aureus 489 1207 3677 4644 5538
 resistance, Staphylococcus aureus, aminoglycoside acetyltransferase/aminoglycoside phosphotransferase 10125

Gentamicin(Contd),

resistance, urinary tract infection bacteria 6485
 Salmonella 8949
 Salmonella enteritidis 2993
 Salmonella typhimurium 10246
 sensitivity testing, Enterobacteriaceae 10259
 sensitivity testing, Pseudomonas aeruginosa, culture medium 6549
 Serratia marcescens 2993 4743
 serum, high-pressure liquid chromatography assay 7414
 Staphylococcus 1304 7368
 Staphylococcus, anaerobiosis 9044
 Staphylococcus aureus 1207 1214 2187 10257
 Staphylococcus aureus L-form 3750
 Streptococcus 3751 7368
 Streptococcus faecalis 1214
 Streptococcus group D 7268
 Streptococcus mutans 552
 ticarcillin 1297
 Yersinia enterocolitica 4730 6551
 Yersinia pseudotuberculosis 4744
Gentamicin A,
 antibiotic complex, Micromonospora grisea, antibacterial agent 562
 resistance, Staphylococcus epidermidis, tobramycin adenyltransferase 6491
Gentamicin acetyltransferase,
 Staphylococcus aureus, gentamicin resistance 489
Gentamicin adenine mononucleotide transferase,
 Escherichia coli, gentamicin assay 8363
Gentamicin adenyltransferase,
 Escherichia coli, aminoglycoside antibiotics assay 2183
Gentamicin B,
 615
Gentamicin C,
 2-hydroxy-, Micromonospora purpurea 6597
 2-hydroxy-, Micromonospora purpurea, antibacterial agent 9093 9094
 Craig distribution 6593
Gentamicin C1,
 derivatives, antibacterial agent/animal feed 2225
 gentamicin C, Craig distribution 6598
 mass spectrometry 3787
 Micromonospora purpurea 3786
Gentamicin C1a,
 derivatives, antibacterial agent/animal feed 5685
 gentamicin C, Craig distribution 6598
 mass spectrometry 3787
 Micromonospora purpurea 3786
Gentamicin C2,
 gentamicin C, Craig distribution 6598
 mass spectrometry 3787
 Micromonospora purpurea 3786
Gentamicin C2a,
 gentamicin C, Craig distribution 6598
 Micromonospora purpurea, antibacterial agent 10316
Gentamicin C2b,
 gentamicin C, Craig distribution 6598
 sisomicin transformation, Micromonospora rhodorangea 10262
Gentamicin complex,
 Micromonospora purpurea, fluorimetry 10313
Gentamicin phosphotransferase,
 Staphylococcus aureus, gentamicin resistance 489 5538
Gentamicin X2,
 613 615
 derivatives 613 614
Gentamine,
 derivatives, antibacterial agent 10315

Subject index

- Gentasol,**
prednisolone + gentamicin, antibacterial agent 1371
- Gentian,**
Tetracladium setigerum 307
- Gentian violet,**
Bacillus coagulans, lysine 6831
Bacillus megaterium, lysine 6831
fungistat, poultry feed 956
- Gentisic acid,**
degradation, Rhizobium 6021
Pseudomonas fluorescens, naphthalene oxidation 2916
- Geotrichum,**
canned fruit/vegetable hygiene 9593
cheese 152
frozen food 6026
oil palm kernels 4220
river water 3134
tomato 7181
- Geotrichum candidum,**
alpha-aminolaurophenone/alpha-aminolaurophenone derivatives 5571
enzymes, food 134
food 8466
food, acidified potato dextrose agar/non-acidified chlortetracycline potato dextrose agar 1591
food processing plant, hygiene 10498
frozen food 6026
beta-glucosidase 5055
guava post-harvest decay 2768
haloacetoacetamide + haloacetic ester 1496
lipase 853
mandarin orange post-harvest decay 4440
menthylester hydrolase 7639
orange post-harvest decay, fungicide 2771
orange post-harvest decay, sodium o-phenylphenate 1972
peach post-harvest decay 7190
post-harvest decay/vegetable post-harvest decay, hypobaric pressure 7183
protein, animal feed 198
protein-vitamin concentrate, food/animal feed 3241
rapeseed protein, food 4191
soil 4578
sweet orange post-harvest decay, polygalacturonase, cellulase 9919
tomato fruit rot 3545
vegetable maceration, protein 4221
- Geotrichum flavo-brunneum,**
D-homo-aza steroid derivatives, antifungal agent 5979
- Geotricular candidae,**
Curcuma zedoaria extract 3695
- Geraniol,**
degradation, soil Pseudomonas 5192
oxidation, Arthrobacter 6984
- Geranium,**
see also Pelargonium
Pythium splendens 8694
tobacco ringspot virus 7151
tomato ringspot virus 7151
- Geranium lucidum,**
Peronospora conglomeraata 1060
- Geranium nepalense,**
Peronospora conglomeraata 1060
- Geranium sanguineum,**
Sphaerotheca fugax 304
- Geranylacetone,**
Arthrobacter, squalene oxidation 6984
- Gerbera lanuginosa,**
Colletotrichum dematium 8595
Colletotrichum gloeosporioides 8595
- Germanium,**
shiitake/nameko/enokidake, plant growth promotant/antiviral agent/antifungal agent 1694
- Germicide,**
3,5-dimethyl-4-chlorophenol 3934
food industry 6742
iodochlor 3921
quaternary ammonium compound 2949 3905
skin microorganisms 10646
thiocarbamoyl sulphenamide derivatives, detergent 9228
trichloro-2-hydroxy diphenyl ether, soap 4907
- Gherkin mosaic virus,**
antiviral agent, plant protection 3592
- Ghost spot,**
Botrytis cinerea, tomato, plant protection 5392
- Giant witchweed,**
Cercospora 9866
Fusarium equiseti 9866
Phoma 9866
- Gibberella fujikuroi,**
dihalo-sulphonate derivatives, plant protection 7979
gibberellic acid 5106
rice 9758
- Gibberella moniliformis,**
sugarcane, resistance 8771
- Gibberella xylarioides,**
coffee 4383
- Gibberella zeae,**
see also Fusarium roseum
+ Fusarium moniliforme/Helminthosporium carbonum/Nigrospora oryzae/Sclerotium bataticola, corn 9787
corn 4330 6214
corn, pig feed 3414
F-2 toxin, medium 6144
Gloeophyllum sepiarium, oospolactone 2538
zearalenone, chicken feed 1769
zearalenone, Japanese quail feed 1769
- Gibberellic acid,**
Botrytis cinerea, Vitis 2010
cucumber mosaic virus, chilli 3555
Fusarium moniliforme, whey filtrate medium 4117
Gibberella fujikuroi 5106
- Gibberellin,**
Fusarium moniliforme 8402
Fusarium moniliforme, oat 278
rhizosphere bacteria 3628
- Gibberellin-like compound,**
fungi, Scots pine roots 4116
- Gigasept,**
viricide, Coxsackie virus 6729
viricide, hepatitis virus B 6728
- Gigaspora calospora,**
soil 4566
- Gigaspora gigantea,**
rice 4571
soil 4566
- Gilmaniella humanicola,**
tree bark fermentation, animal feed 7488
- Gilmaniella humicola,**
soil, cellulose degradation 6429
- Ginger,**
Fusarium oxysporum 313
Fusarium oxysporum, fungicide 2007
Memnoniella echinata post-harvest decay 7945
Nectria inventa post-harvest decay 7945
Pythium deliense 1061
Trichuris spiralis post-harvest decay 7945
wheat streak mosaic virus 2732
- Gingivitis,**
alexidine dihydrofluoride 1533
fluoride dentifrice 4903
- Giv-Gard DXN-CO,**
cosmetic preservation 4698
- Gladiolus,**
bean yellow mosaic virus 8695
Pseudomonas marginata 2744
Stromatinia gladioli 4389

Subject index

- Gladiolus(Contd),**
tobacco rattle virus, nematocide 4480
- Gladiolus psittacinus,**
bean yellow mosaic virus 8695
- Glass,**
fungal degradation 905
funoi 4851
Shigella sonnei, indirect haemagglutination 8285
- Glass bead,**
hydroxyapatite-coated, oral bacteria
continuous culture 6767
- Glassware,**
fermentation industry 6966
pharmaceutical, sterilisation, hot
air/infrared radiation 6534
- Glaucine,**
transformation, Fusarium solani 6954
transformation, Streptomyces griseus 6954
- Gleditsia triacanthos,**
Thyronectria austro-americana 4536
- Gliocladium,**
soil, fungistasis 5482
- Gliocladium deliquescens,**
rum distillery slops 7701
- Gliocladium roseum,**
guava post-harvest decay 3754
soil fungistasis, theoretical colonization
index 2862
soil, seed germination 1163
- Gliotoxin,**
Penicillium stoloniferum fast-moving virus
521
yeasts 2170
- Globe artichoke,**
Leveillula 4297
- Gloeocercospora sorghi,**
Sorghum bicolor, fungicide 7973
- Gloeodes pomigena,**
Rosaceae 5297
- Gloeophyllum sepiarium,**
oospolactone, antifungal agent 2538
Rosaceae 5297
- Gloeophyllum trabeum,**
particle board decay testing 10028
wood, soil-block/agar-block method 8011
- Gloeosporium,**
8291
apple 4292
blueberry post-harvest decay 2764
papaya post-harvest decay, fungicide 2772
triazino-benzimidazole derivatives, plant
protection 3588
wheat 6233
- Gloeosporium album,**
apple 7900
- Gloeosporium coryli,**
hazel 7139
- Gloeosporium fructigenum,**
Cordia dichotoma 6170
- Gloeosporium laeticolor,**
isothiocyanate derivatives 3722
- Gloeosporium mangiferae,**
mango post-harvest decay 9917
- Gloeosporium musarum,**
pyridine derivatives 2823
- Gloeosporium papayae,**
papaya post-harvest decay, pectic enzymes,
cellulolytic enzymes 6323
- Gloeosporium perennans,**
apple 7900
phospholane/phosphite derivatives 3576
- Gloeosporium psidii,**
guava post-harvest decay, thiabendazole 2767
- Gloeosporium salicis,**
willow 10018
- Gloeosporium succineum,**
8291
- Glomerella cingulata,**
aculeacins 8175
- Glomerella cingulata(Contd),**
alkyltin cyclopropyl derivatives 1260
antibiotic A23187 2239
chilli 2733
Cissus antarctica 1921
Codiaeum variegatum 7912
diallyl-disulphide 388
garlic oil 388
lubimin, 15-dihydrolubimin, potato 7967
Nyctanthus arborescens 1909
phosphoryl phenyldiamine derivatives 1118
Vitex negundo 1837
- Glomerella miyabeana,**
weeping willow 4542
- Glomus,**
clover 4569
soil 4567
- Glomus caledoniae,**
soil 4566
- Glomus fasciculatus,**
potato 3637
soil 4566
- Glomus macrocarpum,**
potato, phosphorus fertiliser 8878
soil 4566
- Glomus mosseae,**
cotton, Thielaviopsis basicola 8690
Liquidambar styraciflora, soil nitrogen 4527
potato 3637
soil 4566
soil, culture medium 784
- Glove,**
surgeon's, oral surgery 3919
- Glove box,**
anaerobic, transparent plastic incubator
6752
- Glucan,**
barley, degradation, Bacillus pumilus
lichenanase 852
Brachypodium ramosum rhizosphere bacteria
3328
Ruminococcus albus 5986
Streptococcus sanguis 5069
- beta-(1-3)-D-Glucan,**
bacterial curdlan, X-ray fibre diffraction
7672
- 1,4-beta-D-Glucan cellobiohydrolase,**
Trichoderma viride 8364
- beta-1,4-Glucan cellobiohydrolase,**
Trichoderma viride, cellulose hydrolysis,
cellobiose 9395
- 1-4alpha-Glucan phosphorylase,**
Klebsiella pneumoniae 4089
- beta-1,3-Glucanase,**
Arthrobacter 3274
Aspergillus nidulans 3276
Bacillus 5041
Bacillus circulans 3274
Bacillus subtilis, beer wort 4157 4158
Basidiomycetes 3276
Candida utilis 30
fungal 2464
Fusarium oxysporum, tomato 7942
Mucor hiemalis 843
Oerskovia, yeast 3275
Oerskovia, yeast cell wall lytic enzyme 9392
Trichoderma viride 3276
- endo-beta-Glucanase,**
Aspergillus phoenicis, beer, wort 5946
Flavobacterium dormitator, yeast lytic enzyme
2466
fungal 2464
Mucor hiemalis 9393
- exo-beta-D-Glucanase,**
Canoida utilis 2465 3277
fungal 2464 9394
- Glucanase 6V,**
fungal 2464

Subject index

Glucosylase,

- Aspergillus awamori 8348
- Aspergillus awamori, immobilization 8365
- Aspergillus niger, immobilization 8365
- Aspergillus niger, starch granule hydrolysis, scanning electron microscopy 844
- Aspergillus oryzae 7610
- Corticium rolfsii 7626
- Endomycopsis fibuligera 5065
- immobilization 4057
- immobilization, microorganisms 2
- microbial, immobilized 3248
- Rhizopus delemar 7627
- Rhizopus delemar, maltose, gluconic acid 6892
- Rhizopus delemar, sake 7702
- Rhizopus niveus, starch granule hydrolysis, scanning electron microscopy 844
- Rhizopus niveus,
- 2-p-toluidinylnaphthalene-6-sulphonate fluorescence 9356
- Rhizopus nodosus, beer wort 4157 4159
- Trichoderma viride 4090 4091
- Trichoderma viride, starch degradation 4181 4182

Glucosylase I,

- Aspergillus niger 2467

Gluconate dehydrogenase,

- Acetobacter 845
- Gluconobacter 845

Gluconic acid,

- 2,5-diketo-D-, Acetobacter melanogenus 6828
- assay, Pseudomonas fluorescens
- glucono-dehydrogenase 9396
- maltose, Rhizopus delemar glucosylase +
- Aspergillus niger glucose oxidase +
- Aspergillus niger gluconolactonase 6892
- Pseudomonas ovalis 5891
- Pseudomonas ovalis, gluconolactonase 9327
- Pseudomonas ovalis, rotary fermentor 4034

Gluconic acid lactone,

- colostrum preservation 9649

D-Gluconic-delta-lactam,

- nojirimycin, microbial glucose oxidase/glucose dehydrogenase 1435

Glucono-dehydrogenase,

- Pseudomonas fluorescens, gluconic acid assay 9396

Gluconobacter,

- gluconate dehydrogenase 845
- glucose dehydrogenase,
- D-gluconic-delta-lactam 1435
- 2-ketogluconate dehydrogenase 845

Gluconobacter cerinus,

- ornithine-containing lipid 3348

Gluconobacter melanogenus,

- dihydroxyacetone 6005
- enzymes, L-sorbose, L-sorbose,
- 2-keto-L-gulonic acid, L-idenic acid 5024
- L-idenic acid, 2-keto-L-gulonic acid 3229
- 2-keto-L-gulonic acid, L-sorbose 3229
- L-sorbose, L-sorbose 3229 3351

Gluconobacter oxydans,

- levan 8404

Gluconolactonase,

- Aspergillus niger, maltose, gluconic acid 6892
- Pseudomonas ovalis, gluconic acid 9327

Glucosamine,

- assay, koji 9605
- derivatives, Treponema phagedenis 2390
- Junin virus 7341
- Treponema phagedenis 2390

Glucose,

- algal organic matter degradation, bacteria, reservoir water 5797
- antibacterial agent/antifungal agent 5593
- Arthrobacter glucose isomerase, fructose 5107
- Bacillus glucose dehydrogenase 2468

Glucose (Contd),

- Brevibacterium incertum glucose isomerase, fructose 846
- Candida boidinii, fatty acid 5906
- Candida lipolytica, lipids 10102
- Candida tropicalis, fatty acid 5906
- Candida tropicalis, lipids 10102
- Candida utilis, fatty acid 5906
- cellulose, Aspergillus niger/Aspergillus phoenicis beta-glucosidase, Trichoderma viride cellulase 5068
- cellulose degradation, Trichoderma viride cellulase 8453
- cellulose, Trichoderma viride cellulase 1644
- continuous fermentation, Saccharomyces carlsbergensis 6969
- culture, Streptococcus cremoris, acetate 4196
- culture, Streptococcus diacetylactis, acetate 4196
- Escherichia coli chemostat culture 10561
- fermentation, Acetobacter melanogenus, 2,5-diketo-D-gluconic acid 6628
- Flavobacterium devorans glucose isomerase, fructose 846
- immobilised Rhizopus amyloglucosidase 5921
- isomerisation, Bacillus coagulans glucose isomerase, fructose 9398
- Saccharomyces cerevisiae, fatty acid 5906
- Streptomyces dextrose isomerase, fructose 838
- Streptomyces kitasatoensis, leucomycin A1, leucomycin A3 10377
- Streptomyces phaeochromogenes glucose isomerase, fructose 846
- Torulopsis candida, alcohol dehydrogenase 3256
- Torulopsis continuous culture 2913
- Trichoderma viride, cellulose waste 62
- waste cellulose, Aspergillus niger cellulase 6876
- Yersinia enterocolitica lipopolysaccharide 6935

D-Glucose,

- 4-O-methyl-, Rhizobium polysaccharide 2511

Glucose-6-phosphate dehydrogenase,

- Bacillus subtilis 4092
- Candida lipolytica 3278
- Enterobacter liquefaciens, xylitol 2540
- Lactobacillus buchneri, blue dextran-Sepharose 45, affinity chromatography 1652
- Lactobacillus fermenti, blue dextran-Sepharose 45, affinity chromatography 1652
- yeast, immobilisation, polyacrylamide gel 5953

Glucose dehydrogenase,

- Bacillus, glucose 2468
- microbial, D-gluconic-delta-lactam 1435

Glucose isomerase,

- Actinoplanes missouriensis 9397
- Arthrobacter, glucose, fructose 5107
- Bacillus coagulans 9399
- Bacillus coagulans, glucose isomerisation, fructose 9398
- bacteria, fructose 6893
- Brevibacterium incertum, glucose, fructose 846
- Curtobacterium 9401
- Flavobacterium devorans, glucose, fructose 846
- immobilised Bacillus coagulans, D-fructose 5067
- immobilised Streptomyces aureus, D-fructose 5067
- immobilised Streptomyces griseus, D-fructose 5067
- immobilised Streptomyces olivaceus, D-fructose 5067

Subject index

Glucose isomerase(Contd),

- microbial, 9397 9501
- microbial, food 134
- microbial, immobilisation 9400
- microbial, immobilised 3248
- Streptomyces* 2469
- Streptomyces bikiniensis* 5066
- Streptomyces phaeochromogenes*, fructose 6894
- Streptomyces phaeochromogenes*, glucose, fructose 846
- Streptomyces phaeochromogenes*, immobilisation, polyacrylonitrile 5952

Glucose oxidase,

- Aspergillus niger* 4093
- Aspergillus niger*, immobilisation 826 4057
- Aspergillus niger*, maltose, gluconic acid 6892
- fungal 4093
- immobilisation 4056
- immobilisation, microorganisms 2
- microbial, D-gluconic-delta-lactam 1435
- microbial, immobilised 3248
- Penicillium notatum* 4093

alpha-Glucosidase,

- Bacillus thermoglucosidius* 3279
- Enterobacteriaceae 3171
- microbial, soil, lead 6409
- Mucor javanicus* 5947
- Penicillium purpurogenum* 847
- Pseudomonas maltophilia* 5949

beta-Glucosidase,

- Aspergillus niger*, cellulose, *Trichoderma viride* cellulase, glucose 5068
- Aspergillus phoenicis*, cellulose, *Trichoderma viride* cellulase, glucose 5068
- Collectotrichum coccages, tomato 6309
- Enterobacteriaceae 3171
- Fusarium oxysporum* 2471
- Geotrichum candidum* 5055
- Mycoplasmatales, fluoroquinolone tests 10577
- Pseudomonas fluorescens* 5948
- Pseudomonas maltophilia* 5949
- Trichoderma viride* 6873

endo-beta-Glucosidase,

- Fusarium oxysporum* 2471

exo-alpha-1,6-Glucosidase,

- Arthrobacter globiformis* 2470

beta-Glucosidase test,

- Mycobacterium* 10571

Glucosidation,

- 5,7-dichloro-2-methyl-quinolinol, *Sporotrichum sulfurescens*/*Rhizopus colini* 78

Glucoside-3-dehydrogenase,

- Aerobacterium tumefaciens* 4152

alpha-D-Glucoside glucohydrolase,

- Bacillus thermoglucosidius* 3279

Glucosyltransferase,

- Streptococcus sanguis* 5069

D-Glucuronic acid,

- 4-O-[(S)-1-carboxyethyl]-, *Klebsiella polysaccharide* 2513

beta-Glucuronidase,

- Enterobacteriaceae 3171

2-O- (beta-D-Glucuronyl)-7-O-(2-amino-2-deoxy-alpha-D-glucopyranosyl)-L-glycero-D-manno-heptose,

- Bordetella pertussis* endotoxin 8577

Glue,

- antibacterial agent/antifungal agent, alkylphenols 531
- antibacterial agent, 2-bromo-2-hydroxyimino-acetophenone derivatives 8066
- furan, fungal degradation 905

Glume blotch,

- Leptosphaeria nodorum*, wheat 6236
- Septoria nodorum*, wheat 4315 4360 5335 8656 9813
- Septoria nodorum*, wheat, resistance 8656

Glume blotch(Contd),

- Septoria nodorum*, wheat, resistance 9936
- Septoria nodorum*, wheat, zinc-maneb 8811

Glutamate decarboxylase test,

- Escherichia coli*, water/wastewater 3112

Glutamate dehydrogenase,

- Bacillus subtilis* 7628
- citrinin 9711
- Dictyostelium discoideum* 5070
- isozymes, *Bacillus cereus* 6895
- NAD-linked, *Candida albicans* 5914
- NADP-linked, *Candida albicans* 5914
- yeasts 9402

Glutamate synthase,

- Thiobacillus thioparus* 6894

Glutamic acid,

- Arthrobacter* 3230
- Brevibacterium* 3230
- Corynebacterium* 5895
- Mycobacterium* 3230

L-Glutamic acid,

- Brevibacterium flavum* 5027 9333
- Brevibacterium lactofermentum* 5027 9333
- Corynebacterium glutamicum*, gamma-glutamylpeptides 6326
- microbial 9332 9501

Glutamic decarboxylase test,

- bacteria 4929

L-Glutaminase,

- immobilised, *Escherichia coli*, antitumour agent 4123
- Pseudomonas ovalis* 5951
- Pseudomonas testosteroni* 69 5042

Glutaminase A,

- Pseudomonas aeruginosa* 5950

Glutaminase-asparaginase,

- Pseudomonas* 7A 876

L-Glutaminase-asparaginase,

- Acinetobacter glutaminasificans* 9403
- Pseudomonas* 9403
- Pseudomonas acidovorans*, antitumour enzyme 5121

Glutaminase B,

- Pseudomonas aeruginosa* 5950

L-Glutamine,

- hydroxycyclopropyl-, *Coprinus atramentarius* 6830

L-Glutamine D-fructose 6-phosphate

- amidotransferase, *Saccharomyces cerevisiae* 3280

Glutamine deamidase,

- Pseudomonas boreopolis* 10528

Glutamine synthetase,

- Bacillus subtilis* 5071
- Rhizobium*, + legume, nitrogen fixation 8026

gamma-Glutamylpeptide,

- Corynebacterium glutamicum*, L-glutamic acid 8326

Glutaraldehyde,

- antibacterial agent/antifungal agent 6525
- antifungal agent 6509
- Candida albicans* 5568
- disinfectant/sterilizer, medical equipment 9014

- disinfectant testing 726

- disinfection/sterilisation 3907 3908

- Microsporium gypseum* 5568

- mycobactericide 3678

- Providencia stuartii* 4654

- Trichophyton gypseum* 5568

- Vaccinia virus* 7636

Glutaric dialdehyde,

- cosmetic preservation 4698

Glutarimide antibiotics,

- analogues 5635

Glutinosin,

- yeasts 2170

Glycan,

- activated sludge viscous product 694

Subject index

Glycarbylamide,

antimicrobial agent 2134

Glyceraldehyde-3-phosphate dehydrogenase,

bacterial, thermostability 9351

Saccharomyces cerevisiae, affinity

chromatography 2472

-Glyceraldehyde 3-phosphate,

Escherichia coli 4656

Glycerol,

Glucobacter melanogenus, dihydroxyacetone

6005

mosquito densovirus virus preservation

9015

wine, Saccharomyces 5178

En-glycerol-3-phosphate acyltransferase,

Escherichia coli 3281

Glycerol broth,

preservation, bacteria 4703

beta-Glycerophosphate,

selective medium, Streptococcus thermophilus,

yoghurt 6070

Glycerophosphate acyltransferase,

Escherichia coli 7629

Glycine,

Arthrobacter 3230

Brevibacterium 3230

Candida tropicalis, hydrocarbon 485

Mycobacterium 3230

pea, Rhizobium 4592

Rhizobium 4592

Glycine max,

+ Rhizobium 4593

+ Rhizobium japonicum 4447 8030

+ Rhizobium japonicum + Azotobacter

chroococcum, nodulation/nitrogen fixation

1174

+ Rhizobium japonicum, metachlorine 5505

+ Rhizobium japonicum, nitrogen fixation 451

1173 2890 5498 8033 8912 8913 8914

+ Rhizobium japonicum, nitrogen fixation,

nitrate reductase 2485

+ Rhizobium japonicum, nitrogen fixation,

urea 4595

+ Rhizobium japonicum, nodulation/nitrogen

fixation 1172 2082 8032

+ Rhizobium, nitrogen fixation 452 2083 2413

2891 3651 8911

+ Rhizobium, nitrogen fixation, rhizosphere

oxygen 7276

+ Rhizobium, nitrogen fixation, soil water

4595

+ Rhizobium, nitrogen fixation, urea 7277

+ Rhizobium, nodulation/nitrogen fixation

3650

bean pod mottle virus, bean leaf beetle 4309

beet western yellows virus 6197

callus culture, southern bean mosaic virus

5294

Cercospora kikuchii 5310

Cercospora sojae 5310

Colletotrichum dematium 4311

Colletotrichum truncatum 6196

Diaporthe 6196

Diaporthe sojae 5310

dried, mycoflora 9595

Erysiphe 2682

food product, Clostridium perfringens 5201

fungal post-harvest decay, chitin assay 9907

fungicide seed dressing + dichloromethane

2031

Fusarium 5311

Fusarium moniliforme 4311

Fusarium oxysporum 5311

Fusarium roseum 5311

Fusarium semitectum 4311

Fusarium solani 5311

Fusarium tricinum 5311

lectins, + Rhizobium, nitrogen fixation 8899

Macrophomina phaseolina 1016 6196

Glycine max(Contd),

Macrophomina phaseolina, melanin-like

compound 2683

microbial diseases 9769

Microsphaera 2682

Microsphaera diffusa 3471 6196 6200 8616

9771

milk, Karish cheese 9569

miso, lipids 9597

mycoflora, mycotoxins 9596

natto, Bacillus natto, nitrite, nitroso

compound 8515

nodule, Rhizoctonia solani 3472

peanut mottle virus 9770

Peronospora manshurica 5312 6196

Phakopsora pachyrhizi 4312 6196 6201

Phytophthora megasperma 1861 6202 7116 8617

8616

Phytophthora megasperma, pyroxychlor seed

treatment 2030

Pleospaerulina sojaicola 6196

Pseudomonas syringae 6196

Pythium 6196

Pythium irregulare 5311

Pythium myriophyllum 5313

resistance, Microsphaera diffusa 8616

resistance, peanut mottle virus 2778

resistance testing, Phytophthora megasperma

4475

Rhizobium japonicum 2892

Rhizobium, phenols degradation 6021

Rhizobium seed treatment 3031

Rhizoctonia solani 5619

rhizosphere, bacteria, Azotobacter 8015

seed, Bacillus subtilis, penicillin G seed

treatment 8615

seed, Cercospora kikuchii 6199

seed coat, waste, fermentation, methane

bacteria, methane, Aspergillus niger

hemicellulolytic enzyme 10095

seed, fungi, seed treatment 1859

seed, microorganisms 4310

seed, Nematosporea coryli 1860

seed treatment, Rhizobium + fungicide 10070

Sectoria glycines 6196

soybean mosaic virus 3470 7874 8613 8614

soybean mosaic virus, Rhizobium japonicum,

nitrogen fixation 6198

Thanatephorus cucumeris 6196

Thielaviopsis basicola, biological control

363

virus diseases 6196

Xanthomonas ampelina 6196

yellow mosaic virus 2673

Glycine wightii,

seed, + Rhizobium 8904

Glycocholate,

deconjugation, Lactobacillus 4169

Glycocholic acid,

Staphylococcus 7316

Glycoenzyme,

microbial, immobilization 4057

Glycogen,

Escherichia coli ADP-glucose

pyrophosphorylase 6653

Escherichia coli ADP-glucose synthase 6854

Saccharomyces cerevisiae 5108

Glycogen synthase,

glucose-6-phosphate dependent, Dictyostelium

discoideum 6897

Glycol,

oleandomycin 2230

polyethylene, degradation, sewage bacteria

6022

polyethylene-, foot-and-mouth disease virus

5868

polyethylene, Japanese encephalitis virus

precipitation 5869

polyethylene, rice dwarf virus, rice 5870

Subject index

- Glycollic acid,**
iodophenyl hydrazide derivatives,
Mycobacterium tuberculosis 8971
- Glycopeptide,**
Lactobacillus plantarum, *Streptomyces*
D-alanyl-meso-2,6-diaminopimelic acid
endopeptidase 4063
Rhizopus, structure 2427
- Glycophene,**
benomyl-tolerant *Botrytis cinerea*, strawberry
8806
benzimidazole-tolerant *Sclerotinia*
fruticicola, peach 8798
- Glycoprotein,**
growth factor, soil microorganisms 7682
luciferase, *Photobacterium leiognathi* 9415
Pasteurella multocida immunogenic fraction
5137
rabies virus, isoelectrofocusing 2278
vaccinia virus 6850
- Glycosidase,**
Enterobacteriaceae 3171
fungal 6815
- Glycosidation,**
narbomycin, *Streptomyces platensis*,
5-O-mycaminosyl narbonolide,
9-dihydro-5-O-mycaminosyl narbonolide,
antibacterial agent 7438
- Glycoside,**
virescenside E, *Acremonium luzulae*,
structure 9485
virescenside L, *Acremonium luzulae*,
structure 9485
- Glycoside-hydrolase inhibitor,**
microbial 80
- Glycosylation,**
carminomycinone, *Actinomyces coeruleorubidus*
8419
rubomycin, *Actinomyces coeruleorubidus* 8419
- Glynn-Lemmerzahl method,**
resistance, potato, *Synchytrium endobioticum*
328
- Glyphosate,**
soil microorganisms 2087
- GMP,**
microbial 3217
- Gnomonia erythrostoma,**
sour cherry 9828
- Gnomonia leptostyla,**
black walnut 2051
black walnut, benomyl 10008
black walnut, fungicide 10016
- Gnomonia platani,**
sycamore, benomyl 10008
trees, trace metal leaf pollutants 7239
- Goat,**
meat, *Staphylococcus enterotoxins* 7097
Mycoplasma vaccine 3093
rumen bacterium protein digestibility 6096
- Godronia cassandrae,**
highbush blueberry 4373
- Gold,**
microbiological dissolution 465
- Golden mosaic,**
lima bean, whitefly 5303
- Gompertz's law,**
mycelial pellet 3202
- Gomphrena globosa,**
Nicotiana velutina mosaic virus 1908
tomato bushy stunt virus 6269
- Gonatobotrys simplex,**
soil fungistasis 7258
- Gonocin,**
Neisseria gonorrhoeae 818
- Gonococcus,**
see *Neisseria gonorrhoeae*
- Goodyera repens,**
mycorrhiza 4572
- Goose,**
feed, F-2 toxin 3429
feed, T-2 toxin 3429
- Goose grass,**
Uromyces eragrostidis 8593
virus disease 1869
- Gooseberry,**
American, *Sphaerotheca mors-uvae* 4292
- Goss's wilt,**
Corynebacterium nebraskense, corn,
preservation 10217
- Gossypium,**
aflatoxins 9703
Curvularia lunata, pectic enzymes 5083
Fusarium oxysporum 2732
Fusarium oxysporum, soil 7867
Macrophomina phaseolina 1924
Macrophomina phaseolina, soil 8921
Pythium ultimum, seed treatment fungicide
9992
Ramularia areola 7148
resistance, blue disease 7953 9938
resistance testing, *Verticillium dahliae*
4465
Rhizoctonia solani, fungicide 4523
Rhizoctonia solani, seed treatment fungicide
8836 9992
seed, *Colletotrichum gossypii* + *Xanthomonas*
malvacearum 6262
seed, microflora 2737
Verticillium dahliae 4370 4465
Verticillium dahliae, pectolytic enzymes
6263
Verticillium dahliae, soil urea 4520
Xanthomonas malvacearum 5261
Xanthomonas malvacearum, antibacterial agent
3595
- Gossypium arboreum,**
Fusarium vasinfectum 312
resistance, *Xanthomonas malvacearum* 4464
- Gossypium barbadense,**
Helminthosporium gossypii 1055
resistance, *Xanthomonas malvacearum* 7913
Xanthomonas malvacearum 7913
- Gossypium hirsutum,**
Diplodia gossypina 8688 8689
Fusarium 1923
Fusarium oxysporum 2738 4384 8688
Fusarium vasinfectum 312
resistance, *Diplodia gossypina* 8688
resistance, *Fusarium oxysporum* 8688
resistance, *Xanthomonas malvacearum* 4463
4464 7913
Rhizoctonia solani 2739
Rhizoctonia solani, biological control,
Bacillus subtilis/*Penicillium patulum* 372
Rhizoctonia solani, furan-3-carboxamide
derivatives 1112
Sclerotium rolfsii, biological control,
Trichoderma viride, S-ethyl
dipropylthiocarbamate 6354
seed, *Aspergillus flavus* 1838
Thielaviopsis basicola, mycorrhiza 8690
Verticillium 1923
Verticillium dahliae, tolerance 1925
Xanthomonas malvacearum 7913
- Gourd,**
Sphaerotheca fuliginea 1056
- Grain,**
aflatoxin B1 7056
aflatoxin B2 7056
aflatoxin G1 7056
aflatoxin G2 7056
barley, preservation, ammonia 1797
barley, preservation, citral caproate/allyl
caproate, *Aspergillus candidus*, pig feed
9908
citrinin 7056
corn, propionic acid preservation, cattle
feed 209

Subject index

Grain(Contd),

- mouldy, animal feed 3415
- ochratoxin A 7056
- post-harvest decay, fungi, volatile compounds 5402
- preservation 1796
- sterigmatocystin 7056
- wheat, post-harvest decay, fungi 342
- wheat, preservation, ammonia 1797
- wheat, sub-epidermal fungi 9804

Gram,

- see also Chickpea
- + Azotobacter chroococcum, nodulation, nitrogen fixation 5495
- + Beijerinckia indica, nodulation, nitrogen fixation 5495
- + Rhizobium, nitrogen fixation 2080
- + Rhizobium, nitrogen fixation, nodulation 5496
- + Rhizobium, nodulation, nitrogen fixation 5495
- + Rhizobium, soil microorganisms 3646
- Ascochyta rabiei 1850 2675
- Ascochyta rabiei, fungicide 2799
- black, Cercospora 2674
- black, Erysiphe polygoni 3548
- black, Erysiphe polygoni, resistance 3548
- black, + Rhizobium, nodulation, nitrogen fixation 7275
- black, Rhizobium, rhizosphere streptomycetes 2881
- Fusarium orthoceras 7871
- green, Curvularia eragrostidis 1010
- green, + Rhizobium, nitrogen fixation 2080
- green + Rhizobium, nodulation, nitrogen fixation 7275
- green, Rhizobium, rhizosphere streptomycetes 2881
- green, Xanthomonas phaseoli 9765
- Opereculella padwickii 7112
- Ozonium texanum 1009
- Uromyces ciceris-arietini, phyllosphere fungi 3465

Gram stains,

- blood culture 4930
- quality control 7361
- slide staining device, space flight 4925

Gramicidin,

- Bacillus brevis 5736
- Bacillus brevis RNA polymerase 7431
- high-performance thin layer chromatography 5738

Gramicidin A,

- analogues, antimicrobial agent 4804
- antimicrobial agent 4804
- Bacillus brevis 8183
- peptides, antibacterial agent 7329
- poly(alpha-benzyl-D-L-glutamate) 2260

Gramicidin C,

- Bacillus brevis 5737 10370 10371

Gramicidin S,

- Bacillus 9054
- Bacillus brevis 4805
- Bacillus brevis, culture medium 638
- Bacillus brevis, gramicidin S synthetase 7430
- gramicidin S synthetase 1420
- Micrococcus lysodeikticus membrane 5739

Gramicidin S synthetase,

- Bacillus brevis 2473
- Bacillus brevis, gramicidin S 7430
- gramicidin S 1420

Gramineae,

- barley yellow dwarf virus 2691
- cereal chlorotic mottle virus 7117
- Corticium sasakii 7888
- fungal diseases 5000
- fungal post-harvest decay 8747

Gramineae(Contd),

- Fusarium, culture medium 8295
- Gaeumannomyces graminis avenae, biological control, Phialophora radiculicola 370
- Gaeumannomyces graminis tritici, biological control, Phialophora radiculicola 370
- Helminthosporium sativum, culture medium 8295
- mungbean yellow mosaic virus 4294
- powdery mildew 5298
- Puccinia graminis 4334
- Pyricularia 268
- vesicular-arbuscular mycorrhiza 4567

Gramophone record,

- antifungal agent/antimicrobial agent 472

Gramoxone W,

- soil microorganisms 1175

Granaticin,

- Actinomyces globispororoseus 5740
- dihydro-, Streptomyces thermoviolaceus 7432
- Streptomyces thermoviolaceus 7432

Granaticin B,

- Actinomyces globispororoseus 5740

Granulosis virus,

- insecticide, diamondback moth 9488

Grape,

- antiviral agent 4672
- berries, Greeneria fuliginea 2741
- berries, Pestalotia menesiana 2742
- grapevine leafroll virus 5373
- Guignardia bidwellii, fungicide 8802
- patulin 7830
- post-harvest decay, antifungal agent 5399
- post-harvest decay, antimicrobial agent 4437
- Schizosaccharomyces pombe 9513
- wine 9514

Grape juice,

- antiviral agent 4672
- Byssoschlamys nivea 6092
- Byssoschlamys nivea, food preservative 4252
- Byssoschlamys nivea spores, food preservative 3423
- continuous fermentation, yeast, slant-tube fermentor 6970
- patulin 7830

Grape must,

- sulphide 5180
- sulphite 5180

Grapefruit,

- canned, Lactobacillus brevis 6091
- Diaporthe citri, fungicide 2722
- Fusarium lunulosporum post-harvest decay 8753

- Mozambi leaf crumbling virus 6243

- mycoplasma diseases 8662

- virus diseases 8662

Grapefruit juice,

- Lactobacillus brevis 6091

Grapevine,

- Agrobacterium tumefaciens 9870
- Aspergillus niger 1931
- Botrytis cinerea 3512
- Botrytis cinerea, benzimidazoles 4515
- Botrytis cinerea, fungicide 5425
- Botrytis cinerea, gibberellic acid 2010
- Botrytis cinerea, maneb 390
- Botrytis cinerea, resveratrol 1932
- Botrytis cinerea, wine, fungicide 8447
- Court noue virus 9867
- Eutypa armeniaca 3493 7866 9872
- Eutypa armeniaca 9871
- fungicide, 1,2-dithiol-3-thione derivatives 8077
- Fusarium roseum, maneb 390
- grapevine Eulgarian latent virus 6270
- grapevine fanleaf virus 8696
- grapevine fanleaf virus, Chenopodium quinoa 1933
- grapevine leafroll virus 5373 7915
- grapevine stem pitting virus 9868
- Greeneria fuliginea 2741

Subject index

Grapevine (Contd),

- Martrure virus 9867
- Oidium tuckeri 3512
- peach rosette mosaic virus 251
- Peronospora, copper fungicide 4504
- Peronospora, fungicide 4483
- Phomopsis viticola 7917 9873
- Phomopsis viticola, fungicide 9966
- Pierce's disease 1929
- Pierce's disease, Lactobacillus 7152
- Plasmopara viticola 314 3513
- Plasmopara viticola, aminomethylenemalononitrile derivatives 3578
- Plasmopara viticola, 2-cyanoamino-2,6-dinitroaniline derivatives 9976
- Plasmopara viticola, 2-cyanoacetamide derivatives 9974
- Plasmopara viticola, electron microscopy 5374 5375
- Plasmopara viticola, imidazo-pyrimidine derivatives 4512
- Plasmopara viticola, triazinedione derivatives 1119
- potyvirus 7916
- Pseudomonas syringae 1930
- soil microflora, intercalary ray grass culture 426
- tomato ringspot virus 6271
- Uncinula necator, 2-aminopyrimidine derivatives 395
- Uncinula necator, fungicide 1101
- Uncinula necator, triazinedione derivatives 1119
- virus disease, heat treatment 7965
- virus diseases 4390
- yellow disease, rickettsia-like organism, nematode 8669
- Grapevine Bulgarian latent virus,** grapevine 6270
- Grapevine chlorotic mosaic virus,** grapevine 4390
- Grapevine fanleaf virus,** grapevine 4390 8696
- grapevine, Chenopodium quinoa 1933
- Grapevine fleck virus,** grapevine 4390
- Grapevine infectious necrosis virus,** grapevine 4390
- Grapevine interven necrosis virus,** grapevine 4390
- Grapevine leafroll virus,** grape 5373
- grapevine 7915
- Grapevine stem pitting virus,** grapevine 9868
- Grapevine vein mosaic virus,** grapevine 4390
- Grapevine vein necrosis virus,** grapevine 4390
- Grapevine veinbanding mosaic virus,** grapevine 4390
- Grapevine veinbranding virus,** grapevine 4390
- Grapevine wood pitting virus,** grapevine 4390
- Grapevine yellow mosaic virus,** grapevine 4390
- Graphinone,** Graphium 81
- Graphium,** graphinone 81
- soil, oil 5517
- white pine, cryptosporiopsis 4555
- white pine, hyalodendrin 4555
- white pine, scytalidin 4555
- Grass,** aquatic, rhizosphere, nitrogen fixation 3644
- barley yellow dwarf virus 2691

Grass (Contd),

- barnyard, cereal chlorotic mottle virus 7117
- barnyard, viral stunting disease 7122
- Bermuda, Cynodon mosaic virus 1874
- Curvularia trifolii 1873
- fescue, Ustilago bullata 1875
- fungal diseases 5000
- Gaeumannomyces graminis avenae, biological control, Phialophora radiculicola 370
- Gaeumannomyces graminis tritici, biological control, Phialophora radiculicola 370
- guinea, + Spirillum lipoferum, nitrogen fixation 2893
- guinea, Spirillum lipoferum, soil, nitrogen fixation 2085
- maize dwarf mosaic virus 1867
- nitrogen fixation, nitrogenase 4597
- pangola, Pyricularia grisea 3483
- Pseudomonas 4316
- Puccinia graminis 4334
- resistance, Pyricularia grisea 4448
- Rhodes, Drechslera australiensis 2698
- Rhodes, Drechslera chloridis 2698
- Rhodes, Drechslera hawaiiensis 2698
- Sewan, Ustilago vilfae 9802
- soft chess, nitrogen fixation, acetylene reduction assay 2882
- timothy, Heterosporium phlei 2700
- timothy, Phleum green stripe virus, Megadelphax sordidula 1871
- triple-awn, rhizosphere bacteria, nitrogen fixation, Rhizobium/Azotobacter 2075
- tussock, Helminthosporium catenarium 2699
- Grassy shoot disease,** sugarcane, hot air treatment 7953
- Gravel,** beach, oil degradation 8046
- Gravity,** zero, microbial fermentation 4031
- Greasy spot,** Zygophiala jamaicensis, carnation 8598
- Green ear disease,** Sclerospora graminicola, pearl millet, resistance 2784
- Green gram,** Xanthomonas phaseoli 9765
- Green mosaic virus,** eggplant 6265
- Green mould,** Penicillium digitatum, Citrus, fungicide 4441
- Penicillium digitatum, citrus post-harvest decay, 1-[beta-(allyloxy)-2,4-dichlorophenethyl]-imidazole 3541
- Penicillium digitatum, satsuma mandarin, fungicide DF-125 5400
- Greeneria fuliginea,** grapevine 2741
- Greening,** citrus 1043
- Greensward,** Sclerotium rolfsii 1062
- Greigite,** pyritization, Desulfovibrio desulfuricans, soil 6456
- Gremmeniella abietina,** lodgepole pine 2839
- Grewia asiatica,** bark extract, watermelon mosaic virus, marrow 5434
- Cercospora grewiae, Cephalosporium roseo-griseum 1073
- Pasteurella greuriae, Alternaria 1073
- Phomopsis pustulata 1836
- Grex,** Septoria tritici, wheat 9964
- Grey leaf spot,** Cercospora sorghi, Sorghum bicolor, fungicide 7973

Subject index

Grey leaf spot(Contd),

- Pyricularia grisea*, *Digitaria*, resistance 4448
- Stemphylium solani*, tomato, plant protection 5392

Grey mould,

- Botrytis cinerea*, potato 327
- Botrytis cinerea*, strawberry 4291
- Botrytis cinerea*, tomato, plant protection 5392
- Botrytis incerea*, *Fragaria*, benomyl tolerance, glycophene 8806
- Diaporthe sojae*, soybean 5310

Grey scab,

- Sphaceloma murrayae*, willow 10018

Grifola sulphurea,

- xylanase 9478

Griselimycin,

- analogues, antibacterial agent/antifungal agent 535

Griseofulvin,

- 7591
- antifungal agent 2992
- antimicrobial agent 528
- Aspergillus niger*, lipids 9053
- assay, spectrophotometry 9105
- Fusarium oxysporum*, lemon post-harvest decay 9916
- Geotrichum candidum*, orange post-harvest decay 2771
- Penicillium nigricans*, N-nitroso-N-methylbiuret, ultraviolet irradiation 1377
- Penicillium patulum* 8171
- Penicillium urticae* 4266
- Penicillium urticae*, deuterium nuclear magnetic resonance spectroscopy 3070
- Phytophthora parasitica*, Piper betle 9970
- potentiometry 10327
- yeasts 2170

Griseorhadin A,

- structure 8184

Griseoviridin,

- Streptomyces griseus*, structure 3807

Griseusin A,

- structure 3071

Griseusin B,

- structure 3071

Grisorixin,

- numbering system 1384

Grocott stain,

- Aspergillus fumigatus*, tissue section 2391
- Blastomyces dermatitidis*, tissue section 2391
- Coccidioides immitis*, tissue section 2391
- Histoplasma capsulatum*, tissue section 2391

Groundnut,

- see also Peanut
- + *Rhizobium*/seed treatment 445
- Aspergillus flavus* 265
- Puccinia arachidis* 1853

Groundnut chlorotic spot virus,

- peanut nodules 1013

Groundnut peavine,

- Cercospora personata*, *Cercospora arachidicola*, fungicide 8792

Groundnut rosette virus,

- peanut 9768

Growth,

- aerobic, microorganisms 3151

Growth chamber,

- microorganisms 7548

Growth curve,

- microbial, Rao's covariance adjusted estimators 10518

Growth factor,

- selenobiotin 7532
- soil microorganisms 7682

Growth inhibition,

- assay, *Acholeplasma* reference antisera 5847

Growth inhibition(Contd),

- assay, *Mycoplasma* reference antisera 5847

Growth precipitation,

- assay, *Acholeplasma* reference antisera 5847
- assay, *Mycoplasma* reference antisera 5847

Growth promoting substance,

- Lactobacillus bifidus*, *Escherichia coli* cultural medium 7683

GTP cyclohydrolase,

- Serratia indica* 2474

Guaiaacol,

- polymerization, *Rhizoctonia praticola* phenol oxidase 3305

Guanidine,

- derivatives, fungicide, paint 3041

Guanine,

- analogues, antiviral agent 10183

Guanine diphosphate,

- phosphorylation, *Streptomyces aureofaciens* nucleoside diphosphokinase 3298

Guanosine,

- bat, soil, *Histoplasma capsulatum* 2066

Guanosine,

- Sacillus subtilis* 1628 4122

Guanosine-5-monophosphate,

- Corynebacterium* 65

Guanosine polyphosphate,

- Brevibacterium ammoniagenes* 9448

Guanyloribonuclease,

- Streptomyces aureofaciens* 3282

Guar,

- Colletotrichum capsici*, sporulation 1001

Guar gum,

- degradation, *Bacillus* 5191
- Vibrio*/*Halobacterium*/*Halococcus*, potash mining 2902

Guava,

- Cylindrocarpum tonkinense* post-harvest decay 7189
- Geotrichum candidum* post-harvest decay 2768
- Gliocladium roseum* post-harvest decay 8754
- Mucor hiemalis* post-harvest decay 7946
- Myxosporium psidii* 6664
- Pestalotia* 1003
- Pestalotia psidii* post-harvest decay, homeopathic drugs 9915
- Phomopsis destructum* 5356
- post-harvest decay, *Colletotrichum gloeosporioides*, tetracycline/thiourea 346
- post-harvest decay, thiabendazole 2767

Guignardia aesculi,

- Ohio buckeye, benomyl 10006

Guignardia bidwellii,

- grape, fungicide 8802

Guignardia citricarpa,

- Citrus post-harvest decay 7188

Guignardia musae,

- banana 7105

Guinea grass,

- + *Spirillum lipoferum*, nitrogen fixation 2893

Guizotia abyssinica,

- seed, *Aspergillus flavus* 1638

L-Gulonic acid,

- 2-keto-, *Brevibacterium* 2420

Gum,

- American sweet, *Glomus mosseae* mycorrhiza, soil nitrogen 4527
- guar, degradation, *Bacillus* 5191
- locust bean, degradation, *Bacillus* 5191
- microbial, hydrocarbon 3662
- preservative, cinnamyl phenols 532
- xantham, classification, microbial protease 5111

Gumase,

- Bacillus subtilis*, silage preservative 3418

Gummosis,

- Eutypa armeniaca*, apricot 7866

Gushing,

- beer, malt mycoflora 5167

Subject index

Gymnoascus sudens,
237

Gymnosporangium,
Juniperus 9819
Pomaceae 9819

Gymnosporangium confusum,
Juniperus 9819
Pomaceae 9819

Gymnosporangium gracile,
Juniperus 9819
Pomaceae 9819

Gymnosporangium juniperi-virginianae,
apple, resistance 6338
crabapple, resistance 3553

Gymnosporangium sabiniae,
pear 9819
Rosaceae 5247

Gynura,
Chrysanthemum 8697
Gynura aurantiaca 8697

Gynura aurantiaca,
latent virus 8697

Gyromitra esculenta,
Aroma compounds 7029

Hackberry,
resistance, Lenzites trabea 420

Haem-containing microorganism,
luminescence 1546

Haem protein,
lipoxigenase-like enzyme, Fusarium oxysporum 2478

Haemagglutination,
aggregate, Bacillus cereus exo-enterotoxin 5292

assay, Acholeplasma reference antisera 5847

assay, Mycoplasma reference antisera 5847

indirect, assay, Acholeplasma reference antisera 5847

indirect, assay, Mycoplasma reference antisera 5847

indirect, Escherichia coli K antigen 5842

indirect, Escherichia coli O antigen 5842

indirect, Shigella sonnei, surfaces 8285

passive, herpes simplex virus, sensitized erythrocytes 4007

reversed passive, hepatitis B virus 4993

viruses, lyophilised chick erythrocytes 1606

Haemagglutination-inhibition,
gentamicin assay 5683

viruses, lyophilised chick erythrocytes 1606

Haemagglutination-inhibition test,
Mycoplasma gallisepticum haemagglutinin 79

Mycoplasma synoviae haemagglutinin 79

rubella 792

Haemagglutination test,
indirect, Pseudomonas pseudomallei, melioidosis 10585

indirect, varicella-zoster antibody 3209

simian foamy virus 5871

Haemagglutinin,
Mycoplasma gallisepticum, haemagglutination-inhibition test 79

Mycoplasma synoviae, haemagglutination-inhibition test 79

Haemodialysis,
bactericide, benzoic acid 3142

Haemodialysis rinsing solution,
bacterial pollution/hygiene 3128

Haemolysin,
alveolysin, Bacillus alvei 9726

Bacillus cereus, food 7078

Clostridium perfringens 1830

Staphylococcus, agar plate tests 2417

Haemolysin(Contd),
Staphylococcus aureus L-form 3750

Vibrio parahaemolyticus, zinc 9744

delta-Haemolysin,
Staphylococcus 819

Staphylococcus aureus 2444

Haemolysis,
passive immune, Escherichia coli enterotoxin assay 7088

Haemolysis-in-gel test,
mumps virus antibody 1608

Haemolysis test,
single radial, influenza virus antibodies 10635

Haemolytic agent,
mycobacillin 10387

Haemolytic test,
indirect, Mycoplasma 1600

Haemophilus,
cefatrizine 588

cefuroxime/cephalothin 10277

cephalexin/cephradine/cefaclor 6578

efrotomycin 5731

Haemophilus influenzae bactericidal factor 6844

sulphamethoxazole-trimethoprim 7319

Haemophilus aegyptius,
Haemophilus influenzae bactericidal factor 6844

Haemophilus aphrophilus,
Haemophilus influenzae bactericidal factor 6844

Haemophilus gallinarum,
chlorodicyano benzene organosulphur derivatives 5595

culture, vaccine, fowl coryza 10431

Haemophilus gallinarum vaccine,
10431

Haemophilus haemolyticus,
Haemophilus influenzae bactericidal factor 6844

Haemophilus influenzae,
ampicillin 558 604 5640 6581 8114 10269

ampicillin, Autobac system 5670

ampicillin/cefuroxime 7378

ampicillin resistance, beta-lactamase 5531

ampicillin resistance, beta-lactamase testing 2103

ampicillin sensitivity testing 9082 9083 10292

ampicillin susceptibility testing 7412

antibiotic sensitivity testing 550

antibiotics resistance 4631

antibiotics resistance, cryptic plasmids 10117

antibiotics resistance, R factor 10118

bactericidal factor 6844

blood culture 768

capsular polysaccharide 5110

carbomycin B 4817

cefamandole 3772

cefatrizine 558 588

ceftazidime 5654

cefuroxime 8114

cephalosporin derivatives 2198 5664 7394

cephalosporins 2195 10269

cephalothin/cefamandole/cefotaxime 1325

chloramphenicol 558 5640 8114

chloramphenicol resistance 6487

DNA restriction enzyme 3267

Hind-Glu endonuclease 4086

beta-lactamase, Streptomyces beta-lactamase inhibitor 3347

leucomycin A1 4817

leucomycin A3 4817

niddamycin 4817

penicillin derivatives 5677 6589 6590 7405 7406 7408 7409

Subject index

- Haemophilus influenzae(Contd),**
 penicillinase, assay 1203
 penicillinase, paper strip test 9266
 preservation 4703
 rosamicin 10405
 sulphamethoxazole-trimethoprim 5550 8114
 tetracycline 8114
 tetracycline resistance 6487
- Haemophilus parahaemolyticus,**
 Haemophilus influenzae bactericidal factor 6844
- Haemophilus parainfluenzae,**
 9082
 ampicillin 8115
 carbenicillin 8115
 cephalothin 8115
 chloramphenicol 8115
 colistin 8115
 erythromycin 8115
 gentamicin 8115
 Haemophilus influenzae bactericidal factor 6844
 kanamycin 8115
 penicillin G 8115
 resistance, ampicillin 8115
 resistance, tetracycline 8115
 tetracycline 8115
- Haemophilus paraphrophilus,**
 ampicillin resistance 3675
- Haemophilus vaginalis,**
 5-hydroxy-1-[[[5-nitro-2-furanyl)methylene]amino]-2,4-imidazolidinedione 7321
 culture medium, peptone-starch-dextrose agar/Columbia colistin-nalidixic acid agar 3976
- Haemostat,**
 bacteria, operating theatre 4849
- Hafnia,**
 food, Streptococcus group D enterocines 2559
- Hafnia protea,**
 hop oil emulsion, beer 5168
- Hainesia lythris,**
 strawberry 2757
- Hair dressing,**
 antibacterial agent/antifungal agent, pyridazine-2-oxide derivatives 3932
 quinoxaline derivatives, antibacterial agent/antifungal agent 5598
- Hairbrush,**
 steriliser 1280
- Hakea ulicina,**
 phytophthora cinnamomi 8597
- Haliscomenobacter hydroxiss,**
 Zoogloea ramigera, activated sludge 9180
- Halo blight,**
 Pseudomonas phaseolicola, bean 1842 1843 4290 7111
 Pseudomonas phaseolicola, bean, antibacterial agent 6376
 Pseudomonas phaseolicola, bean, antibacterial seed treatment 6379
 Pseudomonas phaseolicola, bean, phaseolotoxin/[2-serine]-phaseolotoxin 8586
 Pseudomonas phaseolicola, bean, resistance 1978
 Pseudomonas phaseolicola, bean, streptomycin seed treatment 406
- Halooactic ester,**
 + haloacyanoacetamide, fungicide/bactericide, industrial water systems 1496
- Haloaromatic,**
 fungicide 8073
- Halobacterium,**
 guar gum, potash mining 2902
- Halobacterium cutirubrum,**
 L-alanine dehydrogenase 6855
 ferredoxin 6848
- Halobacterium halobium,**
 ferredoxin 6848
 lipid-free bacteriorhodopsin 8330
- Halobacterium salinarium,**
 ferredoxin 6848
- Halobacterium trapanicum,**
 ferredoxin 6848
- Halococcus,**
 guar gum, potash mining 2902
- Halocyanooacetamide,**
 + haloactic ester, fungicide/bactericide, industrial water systems 1496
- Halomicins,**
 10264
- Halotolerance,**
 Bacillus 5522
 Tetracoccus soyae 5522
- Ham,**
 bacteria, shelf-life 6055
 canned, pasteurisation, swine fever virus 4240
 country-style, Aspergillus amstelodami, toxin 7825
 country-style, Pediococcus cerevisiae 7771
 country-style, Pediococcus cerevisiae, microorganisms 7772
 Parma, microorganisms 9577
 vacuum-packaged sliced canned, bacteriology 7806
- Hamasporea benguetensis,**
 raspberry 997
- Hamburger,**
 cooked, bacteriology 9575
- Hamycins,**
 antifungal agent 10266
 methyl ester 10266
- Hand,**
 antiseptic, chlorhexidine gluconate 4906
 disinfection 6735 10495
 hygiene, hospital 7516 7517
 surgical, disinfection, Remanex 3920
- Hand disinfection,**
 dibromoisocyanuric acid 1518
 iodophor, hospital intensive care unit, Pseudomonas 9233
- Hand hygiene,**
 antibacterial agent 1517
 antibacterial agent/antifungal agent, eosilon-caprolactam + alkanediamine derivatives 2149
 antibacterial agent, soap 4906
 hydrogen peroxide disinfectant 1516
- Hanseniaspora,**
 acetoin 3344
 S-adenosylmethionine/methylthioadenosine 871 1687
 diacetyl 3344
 wine 8448
- Hansenula,**
 acetoin 3344
 S-adenosylmethionine/methylthioadenosine 871 1687
 animal feed/food, methanol 820
 beverage proportioning pumps 4225
 diacetyl 3344
 mannann 3216
 restoration, dessication 3739
 slime, fibreboard industry 10471
- Hansenula alcolica,**
 culture, ethanol 781
- Hansenula anomala,**
 cinnamyl phenols 532
 menthylster hydrolase 7638
 5-nitrofurylacrylic acid, wine 3359
 protein, pasta product 3404
 rice beer 4163
 soft drink 6093
- Hansenula mrakii,**
 2-nitropropane dioxygenase 2486
- Hansenula polymorpha,**
 methanol, methanol oxidase 4982
 protein, methanol 9348
 protein, methanol, food 9343

Subject index

- Hansenula polymorpha**(Contd.),
Pseudomonas methanica, methanol 821
- HaplaXius crudus**,
lethal yellowing, coconut palm 8687
- Haplosporella beaumontiana**,
Artabotrys odoratissimus 2663
- Harposporium lilliputianum**,
acid peat bog 10039
- Hatchery**,
poultry, hygiene 9236
- Haustorial neckband**,
Puccinia sorghi, corn, Casparian strip 4300
Uromyces phaseoli, cowpea, Casparian strip 4300
- Hawthorn**,
Fabraea maculata, benomyl 10008
Nectria galligena, apple 7137
- Hay**,
mouldy, actinomycetes, sedimentation chamber 3143
mouldy, fungi, sedimentation chamber 3163
- Haylage**,
sheep feed 1106
- Hazel**,
Anisogramma anomala 4363
Gloeosporium coryli 7139
- Hazelnut**,
Aspergillus parasiticus, aflatoxin 2625
- Head rot**,
Botrytis cinerea, sunflower 8734 9943
Rhizopus nigricans, sunflower 9943
Rhizopus oryzae, sunflower 353
Rhizopus, sunflower 6734
Sclerotinia libertiana, sunflower 9943
Sclerotinia sclerotiorum, sunflower 8734
- Head smut**,
Sohacelotheca reiliana, corn 2696
Ustilago bullata, fescue grass 1875
Ustilago maydis, corn, resistance 9930
- Headblight**,
Eipolaris sorokiniana, barley 4327
- Heart rot**,
Phlebia chrysocrea, oak 418
Phytophthora nicotianae, pineapple 7161
Phytophthora palmivora, pineapple 7161
sugarbeet 4364
- Heartshake**,
Dacrydium, docosaric acid, antibacterial agent/antifungal agent 7234
- Heat**,
+ gamma-irradiation, sterilisation 9012
canned food sterilisation 5248
dry, resistance, Bacillus subtilis 8048
resistance, Bacillus cereus 1191 6470
resistance, Bacillus subtilis 4625
resistance, microorganisms, canned meat 5157
sublethal stress, Vibrio parahaemolyticus 4188
- Heat evolution**,
fermentation 4155
- Heat resistance**,
Aspergillus 10114
Bacillus, milk 8482
Bacillus stearothermophilus, milk 8483 8484
Bacillus stearothermophilus, water activity 6989
Bacillus subtilis, bread 7023
Bacillus, ultrasonic treatment 211
bacteria, scalding tank water 1530
Byssoschlamys fulva 2618 10114
Byssoschlamys nivea 2618
Clostridium botulinum, tomato juice 9687
dry, Bacillus stearothermophilus 10113
dry, Bacillus subtilis 10113
microorganisms, apparatus 10112
microorganisms, food, thermal death time curve 7307
orange juice microflora 222
Yersinia enterocolitica, skim milk 9540
- Heat sterilisation**,
coliform, sewage treatment 706
food 8523
- Heat treatment**,
+ chlorination + succinic acid, Salmonella typhimurium, chicken carcass 1787
+ gamma-irradiation, poliovirus, sewage sludge 9302
Alcaligenes eutrophus, RNA 5115 5116
Armillaria mellea, soil/Citrus 1997
Aspergillus flavus, food preservation 213 214
Bacillus cereus, food preservation 8527
Corynebacterium autotrophicum, RNA 5116
coryneform, RNA 5116
Escherichia coli, RNA 5116
milk, Staphylococcus aureus 9656
mycoplasma-like organism, plant disease 5295
Nicotiana rustica, alfalfa mosaic virus 1995
Nicotiana rustica, cucumber mosaic virus 1595
Nocardia opaca, RNA 5116
phenylmercuric nitrate/phenylmercuric acetate, sterilisation, Bacillus subtilis 6528
poliovirus, wastewater sludge 2301
potato virus S, potato 4479
Pseudomonas flava, RNA 5116
Pseudomonas putida, RNA 5116
sausage, Pseudomonas/Micrococcus 220
Staphylococcus aureus enterotoxin B 6157
sunarcane, microbial diseases 4478
sweet orange, citrus greening, mycoplasma-like organism 5355
tomato juice, Bacillus coagulans 970
virus disease, grapevine 7965
- Heavy metal**,
tolerance, Penicillium ochro-chloron 8930
- Hedamycin**,
structure 10372
- Hedera helix**,
arabis mosaic virus 250
Phytophthora palmivora, pyroxychlor 2745
- HeLa cell**,
antibiotic OS-3256-B 9456
- HeLa cell culture**,
vaccinia virus cytotoxin 5282
- Helena**,
antibacterial agent/antifungal agent 6531
- Helianthus annuus**,
Alternaria 9943
Botrytis cinerea 8734 9943
fungal diseases 333
fungal root rot 8734
Fusarium 9943
Fusarium oxysporum 6300
Leptosphaeria dolium 6301
Leptosphaerulina trifoli 6301
Macrophomina phaseolina 4422
Phoma exigua 6302
phyllody, mycoplasma-like organism 1955
Plasmopara halstedii 8734 9943
Pseudomonas syringae 1956
Puccinia helianthi 8734 9896
resistance, Plasmopara halstedii 6344
Rhizopus 8734
Rhizopus nigricans 9943
Sclerotinia libertiana 9943
Sclerotinia sclerotiorum 8734
Sclerotium bataticola 9943
seed, fungi 1957
seed husks, microbial protein 8340
Septoria helianthi 9943
Verticillium 9943
Verticillium dahliae 6303 8734
- Helianthus argophyllus**,
Alternaria helianthi 6299
- Helianthus debelis**,
Alternaria helianthi 6299

Subject index

- Helianthus tuberosus,**
Agrobacterium tumefaciens 1917
Cercospora bidentis 6252
- Helicoidal reactor,**
 immobilised *Rhizopus amyloglucosidase*,
 glucose 5921
- Heliconia bihai,**
Proliferobasidium heliconiae 1910
- Heliumycin,**
Actinomyces olivocinereus 6639
Actinomyces resistomycificus 1386
- Heliothis,**
 encapsulated nuclear polyhedrosis virus 69h4
- Heliothis armigera nuclear polyhedrosis virus,**
Bacillus subtilis culture 4994
Saccharomyces cerevisiae culture 4994
- Helminthosporal,**
Cochliobolus setariae 6625
- Helminthosporium,**
 8291
 barley seed, beer 7697
 corn 6214
 cotton seed 2737
 ethylimidazole derivatives, plant protection 8814
 halogenated N-thiazolyl substituted
 2-mercapto benzoic acid amides 6511
 Italian ryegrass 8641
 Kentucky bluegrass 8641
 large cardamom 4224
 meadow fescue 8641
 mouldy grain, animal feed 3415
 orchard grass 2641
 Parthenium hysterophorus extract 2932
 perennial ryegrass 8641
 phospholane/phosphite derivatives 3576
 plant disease 2658
 reo fescue 8641
 rice rhizosphere, pesticides 8916
 rice, tri-2-norbornyltin derivatives 6363
 soil 3632
 soil, carbofuran degradation 10076
 timothy grass 8641
- Helminthosporium apattarnae,**
 cellulase, inhibition 7614
 pectic acid transeliminase 5085
 pectin transeliminase 5085
- Helminthosporium carbonum,**
 + *Fusarium moniliforme*/Gibberella
 zeae/*Nigrospora cryzae*/Sclerotium
 bataticola, corn 9787
 chickpea, phytoalexin 6348
 clover pterocarpin phytoalexin transformation 3463
 corn 5325
 corn, resistance 5325
 mackinain 4496 4497
 medicarpin 4496 4497
 pigeon pea, isoflavonoid 3566
- Helminthosporium catenarium,**
 cock's foot 2699
 corn 2699
 reed canarygrass 2699
 tussock grass 2699
- Helminthosporium dictyoides,**
 Italian ryegrass 7875
 perennial ryegrass 7875
- Helminthosporium gossypii,**
 cotton 1055
- Helminthosporium gramineum,**
 2-amidocarbonylthiobarbituric acids 2027
 barley 2689 3475 4315 6204
 fungicide, plant protection 7206
 sporulation medium 1594
 thiadiazolo-benzimidazole derivatives 8081
 triorganotin compounds/triorganolead
 compounds 2129
- Helminthosporium leucostylum,**
 rice seed 1880
- Helminthosporium maydis,**
 see also *Bipolaris maydis*
 corn 275 5326 7124
 corn, ozone 9791
 corn, resistance 1983 7197
 Cloeophyllum sepium oospolactone 2538
 ophiobolin A, corn 9716
 pathotoxin, corn 7125
 toxin, assay 9715
 toxin, corn 7067
- Helminthosporium nodulosum,**
 ragi 1943
- Helminthosporium oryzae,**
 4-thiocyano-quinazolinones 2024
 aculeacins 8175
 chlorodicyano benzene organosulphur
 derivatives, plant protection 5595
 Curcuma caesia oil 5567
 Curcuma zedoaria extract 1695
 diallyl-disulphide 388
 garlic oil 388
 Lawsonia alba leaf extract 7331
 plant extracts, plant protection 9956
 rhizopin 1438
 rice 281 282 1032 1133 1034 8645
 rice, antifungal agent 283 4492
 rice, fungicide 4486 7972
 rice, plant protection 1029
 wild rice 4344
- Helminthosporium papaveris,**
 poppy 3520
- Helminthosporium phlei,**
 timothy grass 7875
- Helminthosporium poae,**
 Kentucky bluegrass 8641
- Helminthosporium rostratum,**
 wheat seed, biological control 4524
- Helminthosporium sacchari,**
 bajra 1024
 helminthosporoside, serinol, sugarcane 2629
- Helminthosporium sativum,**
 antibiotic A23187 2239
 barley 4327
 barley, ethirimol 6205
 barley, nitrogen/ethirimol 4328
 cereal, diallate 269
 cereal, soil 7876
 Dactylium dendroides antibiotic 2237
 Diplocladium elegans antibiotic 2237
 formamiae derivatives, plant protection 7336
 fungicide 8791
 fungicide, plant protection 7206
 Gramineae, culture medium 1295
 oxadiazolidine-3,5-dione derivatives 1115
 plant rhizosphere 2856
 potato, rishitin/lyuhimin 4495
 soil, fungistasis, ethylene 2861
 spores, plant leaves 7106
 thiourea 8992
 toxin 2630
 triazine derivatives, plant protection 8821
 tridemorph 5417
 victoxinine, plant disease 3160
 wheat 1038 1039 2711 3488 5338 6233 9208
 wheat, antifungal agent 9961
 wheat, biological control, soil microflora 371
 wheat, seed dressing fungicide 2032
 wild rice 4344
- Helminthosporium siccanis,**
 Italian ryegrass 7875
 orchardgrass 7875
 perennial ryegrass 7875
 red fescue 7875
 siccanin, fungicide 7450
- Helminthosporium sigmoideum,**
 amipurimycin 9124
 rice 7131
 wild rice 4344
 wild rice 7131

Subject index

- Helminthosporium solani**,
potato 7929
potato, fungicide seed dressing 7993
- Helminthosporium sorghicola**,
sorghum 286
- Helminthosporium spiciferum**,
banana post-harvest decay 9910
macerating enzymes 4059
naphthaquinones 5430
wheat 1038
wheat, culture medium 1042
- Helminthosporium teres**,
barley 4315 6204 6206 8629
isothiazolopyridinone derivatives 2975
- Helminthosporium tetramera**,
jute seed, seed dressing fungicide 2825
ragi 1944
ragi, phenolic compound 1945 1946
rice seed 1820
- Helminthosporium triseptatum**,
rice seed 1820
- Helminthosporium tritici-repentis**,
wheat 3488
- Helminthosporium turcicum**,
corn 4333 9792
corn, resistance 2781 5407 7198
flavanone derivatives 10188
flavone derivatives 10188
maize 276
- Helminthosporium vagans**,
leaf spot, phthalonitrile 3579
- Helminthosporium victoriae**,
victorin, oat 7126 9793
victorinine, plant disease 6160
- Helminthosporol**,
Cochliobolus setariae 6625
- Helminthosporoside**,
Helminthosporium sacchari, serinol, sugarcane 2629
- Hemerocallis lilioasphodelus**,
extracts, antibacterial agent 10141
- Hemicellulase**,
Aeromonas 9368
Cephalosporium sacchari 2475
- Hemicellulolytic enzyme**,
Aspergillus niger, soybean seed coat waste fermentation, methane bacteria, methane 10095
- Hemileia vastatrix**,
coffee, fungicide 5422
coffee, oxycarboxin 20EC 9977
coffee, plant protection 362
copper fungicide, plant protection 8807
N-phenyl maleic imide derivatives 393
plant disease 2656
pyran-carboxylic acid anilide derivatives, plant protection 8820
- Hemlock**,
mountain, Phellinus weirii 7232
poison, carrot thin leaf virus 8684
western, decay fungi 5446
western, Phellinus weirii 1124 7232
- Hemp**,
Pseudoperonospora cannabina 2661
- n-Hendecanoic acid**,
antifungal agent 1232 1233
- Hendersonia**,
8291
- Hendersonia acicola**,
+ Lophoderma sulcigena, Corsican pine 2842
- Hendersonia creberrima**,
mango post-harvest decay 1090 1971
- Hendersonia luzulae**,
Ehretia laevis 1836
- Hendersonula toruloidea**,
soil, chlorpropham degradation 4601
soil, 2,4-dichlorophenoxyacetic acid degradation 4601
- Henella**,
cephalosporin derivatives 1339
- Henna**,
leaf extract, antifungal agent 7331
- Hepatitis B antigen**,
purification 1611
- Hepatitis B antigen vaccine**,
4832
- Hepatitis B surface antigen**,
air sampling technique 6671
- Hepatitis B virus**,
antigen, vaccine 657
Gigasept 6728
reversed passive haemagglutination 4993
- Hepatitis B virus vaccine**,
657 2280
- Hepatitis contagiosa canis virus vaccine**,
2287
- Hepatitis virus**,
food 124
river water 2338
surgeon's glove, oral surgery 3919
wastewater, soil irrigation 3874
zonal centrifugation, containment system, air hygiene 2288
- Hepatitis virus vaccine**,
3818 6663
- HEPES buffer**,
avian cell culture, avian disease viruses 4989
- Heptachlor**,
estuarine water bacteria 4884
hexadecane degradation, fungi 4624
- Heptachlorepoxyde**,
milk/milk product microbiology 1725
- Heptadecane**,
Candida lipolytica, acetyl-CoA carboxylase 4061
- Heptamethylnonane + naphthalene**,
Pseudomonas 6466
- Heptanal**,
fungi, wheat seed 407
- Heptane**,
Streptomyces preservation 5609
- 2-n-Heptyl-4-quinolinol**,
marine Pseudomonas, antibacterial agent 6544
- Herbicide**,
Alvison-8, microbial degradation 2897
amitrole, degradation, soil bacteria 7281
Aphanomyces euteiches, pea 7968
asulam, degradation, soil microorganisms 10079
atrazine, microbial degradation, soil 3655
atrazine, soil microorganisms 3654
benefin, degradation, soil microorganisms 10080
cacodylic acid, forest soil, ammonification, nitrification 7265
Ceratocystis ulmi, elm 2044
chloramben, soil, Chaetomium 2898
chlorpropham, degradation, Hendersonula toruloidea, soil 4601
chlorpropham, degradation, Stachybotrys atra, soil 4601
cycloate, Rhizoctonia solani, sugarbeet 7969
dalapon, soil microorganisms, dehalogenase 4600
degradation, soil microorganisms 5503
diallate, fungal diseases, cereal 269
dichlobenil, soil microorganisms, microbial assay 8918
2,4-dichlorophenoxyacetic acid, degradation, Hendersonula toruloidea, soil 4601
2,4-dichlorophenoxyacetic acid, degradation, Stachybotrys atra, soil 4601
2,4-dichlorophenoxyacetic acid, microbial degradation, river water 7707
dinitramine, Aphanomyces euteiches, pea 6353
dinitroaniline derivatives, degradation, soil microorganisms 10080
dinoseb, Sclerotium rolfsii, peanut 9957

Subject index

Herbicide(Contd),

diquat, degradation, soil *Aspergillus niger* 4602
 diquat, degradation, soil *Mucor hiemalis* 4602
 diquat, degradation, soil *Penicillium frequentans* 4602
 diquat, degradation, soil *Zygorhynchus heterogamus* 4602
 diuron, *Trichoderma viride*, soil 7280
 S-ethyl dipropylthiocarbamate, *Trichoderma viride*, biological control, *Sclerotium rolfsii*, white clover 6554
 fluometuron, *Aspergillus terreus*, soil 7280
 fluometuron, *Rhizoctonia solani*, soil 8036
 fluometuron, *Trichoderma viride*, soil 7280
 herbicidin A/herbicidin B 5741
 linuron, degradation, *Ecillus sohaericus*, aryl acylamidase 901
 linuron, soil microorganisms 10081
 metachlorine, *Rhizobium japonicum* + soybean 5505
 metachlorine, soil microorganisms 5505
 methabenzthiazuron, degradation, *Cunninghamella echinulata* 5193
 metribuzin, microbial degradation, soil 3655
 microbial degradation 3363
 milk/milk product microbiology 1725
 monosodium methanearsonate, *Aspergillus terreus*, soil 7280
 monosodium methanearsonate, forest soil, ammonification, nitrification 7265
 monosodium methanearsonate, *Trichoderma viride*, soil 7280
 mycorrhizal fungi 8917
 nitrogen fixation, *Rhizobium* + broad bean 6443
 oxadiazon, *Sclerotium rolfsii*, peanut 9957
 paraquat, degradation, soil *Aspergillus niger* 4602
 paraquat, degradation, soil *Mucor hiemalis* 4602
 paraquat, degradation, soil *Penicillium frequentans* 4602
 paraquat, degradation, soil *Zygorhynchus heterogamus* 4602
 paraquat, soil microorganisms 1175
 pentachlorophenol, degradation, soil bacteria 8919
 pentachlorophenol, degradation, soil *Pseudomonas* 10082
 pentachlorophenol, soil bacteria 8919
 prometryn, *Aspergillus terreus*, soil 7280
 prometryn, *Rhizoctonia solani*, soil 8036
 prometryn, *Trichoderma viride*, soil 7280
 Pyrimin, degradation, soil microorganisms 1176 1177
 pyrazon, bacterial degradation, 4-oxalocrotonate decarboxylase 5197
 pyrazon, bacterial degradation, pyrocatechase 5196
 pyrazon, pyrazon dioxygenase, pyrazon-degrading bacteria 7656
 soil *Azotobacter vinelandii* 5504
 soil, *Fusarium solani*, bean 10073
 soil microorganisms 2087 7279
 soil + nitrification, *Nitrobacter*, *Nitrosomonas* 5502
 soil, *Rhizobium japonicum* 5504
 trifluralin, *Aphanomyces euteiches*, pea 6353
 trifluralin, degradation, soil microorganisms 10080
 trifluralin, pine mycorrhiza 7227

Herbicidin A,

Streptomyces saganonensis 5742
Streptomyces saganonensis, herbicide/antifungal agent/antibacterial agent 5741

Herbicidin B,

Streptomyces saganonensis 5742

Herbicidin B(Contd),

Streptomyces saganonensis, herbicide/antifungal agent/antibacterial agent 5741

Herellea,

azetidinone derivatives 3687
 cephalosporin derivatives 2211
 gentamicin resistance, tobramycin 6484
 selective medium 3162
 test 1559

Herellea vaginicola,

D-3,6-diaminohexanoic acid 2-(carboxymethyl)-2-methylhydrazine 2151
 gentamicin resistance, tobramycin 6484
 quinolizine-2-carboxylic acid derivatives 4694
 quinolizine derivatives 8100
 tobramycin 6656

Herniaria glabra,

extract, influenza virus 8994

Herpes simplex virus,

see also *Herpesvirus hominis*
 8-hydroxyquinolines 526
 2,3-bis(acetyl mercaptomethyl)-quinoxaline 4685
 acridine derivative 1250 1251
 2,2-anhydro-1-beta-D-arabinofuranosylcytosine acyl derivatives 5588 5589
 1-beta-D-arabinofuranosylcytosine acyl derivatives 5588 5589
 1-beta-D-arabinofuranosylthymine 10184
 chemical contraceptives 4675
 cycloalkyl-4-oxoquinoline-3-carboxylic acid derivatives 2141
 2,3-dihydro-1H-imidazo[1,2-b]-pyrazole 3716
 disinfectant 4673
 distamycin A 3068
 DNA, sodium iodide density gradient centrifugation 2522
 fruit extract 2962
 grape/grape juice/wine 4672
 hydrogen peroxide 2123
 interferon + adenine arabinoside/hypoxanthine arabinoside/adenine arabinoside 5-monophosphate 5544
 interferon + 9-beta-D-arabinofuranosyladenine 4678
 long-chain alcohols 5585
 marine algae extracts 8993
 5-methylmercaptop-2-deoxyuridine 2127
 passive haemagglutination, sensitized erythrocytes 4007
 phosphonoacetic acid 8085
 polyinosinic acid-polycytidylic acid 8089
 RNA complexes 8084

Herpes virus,

carbazole derivatives 2128
 1-difluoramino-adamantane 2147
 dihydroxyanthraquinone derivatives 7342
 1-methylpseudouridine 5113
 Ophiorrhiza mungos extract, camptothecin, 10-methoxycamptothecin 8995
 phenanthrene derivatives 525
 phenanthridinone derivatives 525
 phosphonoacetic acid 1243
 purine sugar derivatives 1245
 pyranone derivatives 525
 theophylline derivatives 8091
 thioxanthene bis-basic ketones 1248
 turkey, Marek's disease vaccine 3091
 xanthene bis-basic esters/bis-basic amides 1247
 xanthene bis-basic ketones 1249
 xanthone bis-basic ketones 1249
 xanthone bis-basic esters/bis-basic amides 1247

Herpes virus vaccine,

3085 6663

Subject index

- Herpes zoster,**
see Varicella
- Herpesvirus,**
3-deazaquanine/3-deazaquanosine/3-deazaquanyl
ic acid 10185
resistance, idoxuridine 10185
ribavirin 10185
turkey, avian cell culture, HEPES buffer
4985
- Herpesvirus hominis,**
see also Herpes simplex virus
BL-3849A 2124
transport medium 8299
- Herpesvirus saimiri,**
phosphonoacetic acid 1243
- Herpotrichia Coulteri,**
mountain pine 2840
- Herpotrichia juniperi,**
pine, fungicide 2840
- Herpotrichia parasitica,**
conifers 3605
European silver fir 2833
- Herring,**
canned, *Lactobacillus casei* histamine, food
poisoning 9587
prepacked, storage, shelf-life 4246
Vibrio parahaemolyticus 8511
- Hetacillin,**
derivatives, antibacterial agent 1365
- Heterobasidium annosum,**
Norway spruce 8853
- Heteropolysaccharide,**
Azotobacter indicus, oil well drilling fluid
9446
Xanthomonas, thickening agent 2516
- Heteropolysaccharide-7,**
Azotobacter indicus 1681
- Heterosporium phlei,**
timothy grass 2700
- Hevea,**
Microcyclus ulei 4289
virus 2657
- Hevea brasiliensis,**
Curvularia pallescens 1081
latex effluent, bacterial methane
fermentation 690
Leptoporus lignosus 329
Microcyclus ulei 1947 1948 4414
- Hexachlorobenzene,**
resistance, *Tilletia foetida*, plant
protection 7204
- Hexachlorocyclohexane,**
degradation, *Clostridium sphenoides* 8456
- Hexachlorophene,**
-impregnated underwear, space flight 4913
antibacterial agent 6738
bacteriostat, skin 4905
bronchofiberscope disinfection 5807
effluent, microbial degradation 689
endoscope disinfection 8251
soap, antibacterial agent 4906
- Hexadecane,**
Cladosporium resinae 2094
degradation, fungi, haptachlor 4624
Mycobacterium lacticum, cetyl alcohol 2919
Mycobacterium lacticum, polysaccharide
2918 2919
Mycobacterium lacticum, vitamin B2 2919
Paecilomyces persicinus, lipid 486
sea water *Alcaligenes* 6463 6464 6465
Torulopsis candida, alcohol dehydrogenase
3256
Torulopsis continuous culture 2913
- Hexaferb,**
Rhizobium/Rhizobium + mung bean 3649
- Hexametaphosphate,**
antibacterial agent/antifungal agent, cholate
7317
- Hexamethylene tetramine,**
animal feed preservation 2602
- Hexamethylene tetramine(Contd),**
bacteriostat, silage 1774
- Hexamethylenetetramine,**
+ chloramphenicol, antibacterial agent 2226
antibacterial agent 1213
- Hexanal,**
fungi, wheat seed 407
- Hexosan,**
Alternaria cucumerina, squash 382
- Hexasul,**
Erysiphe polygoni, pea 8812
- Hexokinase,**
Saccharomyces vini, carbon dioxide 8449
yeast, immobilisation, polyacrylamide gel
5953
- 3-Hexulosephosphate synthase,**
Methylomonas M15 849
- Hibbertia fasciculata,**
phytophthora cinnamomi 8597
- Hibbertia stricta,**
phytophthora cinnamomi 8597
- Hibiclens,**
antibacterial agent/skin antiseptic 4908
- Hibiscrub,**
hand disinfection 10495
- Hibiscus esculentus,**
Clitoria yellow vein virus 6181
Fusarium moniliforme 6277
Fusarium oxysporum 6277
Fusarium semitectum 6277
Fusarium solani 6277
Rhizoctonia solani, seed treatment fungicide
9993
- Hibiscus rosasinensis,**
citrus mosaic virus 1934
- Hibitan,**
bactericide 8245
- Hibitane,**
alcoholic, antiseptic 8252
antibacterial agent/skin antiseptic 4908
Flavobacterium meningosepticum 4850
- Hide,**
coliform 4210
partially-processed, preservation 7285 7286
treatment, microbial protease 8386 8387
- Hikizimycin,**
anthelmintic, structure 6624
- Hind-Glu endonuclease,**
Haemophilus influenzae 4086
- Hinosan,**
Alternaria cepulicola, onion 4492
Helminthosporium oryzae, rice 7972
- Hippeastrum johnsonii,**
Colletotrichum dematium 8595
Colletotrichum gloeosporioides 8595
- Hippurate hydrolysis,**
Streptococcus group B 3194
- Hippurate hydrolysis test,**
rapid, *Streptococcus* group D 10599
- Hishimonus concavus,**
witches' broom disease, loofah 319
- Hispidin,**
Phellinus pomaceus 8430
- Histamine,**
Lactobacillus casei, food poisoning 9587
- Histidine,**
Arthrobacter 3230
Brevibacterium 3230
Mycobacterium 3230
- L-Histidine,**
immobilised *Micrococcus luteus*, histidine
ammonia-lyase, urocanic acid 7630
- Histidine ammonia-lyase,**
immobilised *Micrococcus luteus*, L-histidine,
urocanic acid 7630
- Histidine decarboxylase,**
dairy bacteria 8493
Micrococcus 3283

Subject index

- Histidinol phosphate aminotransferase,**
 Bacillus subtilis 1450
- Histological test,**
 yeasts, meat 9584
- Histone,**
 pea, *Fusarium solani* 9954
- Histone-like protein,**
 Kluyveromyces fragilis 2438
- Histoplasma,**
 bottle gourd seed, seed treatment fungicide 8682
- Histoplasma capsulatum,**
 antibiotic A30641 2241
 blood culture 1592
 econazole 2974
 Grocott stain, tissue section 2391
 micronazole 2974
 phenyl-imidazolyl-fatty acid derivatives 8078
 soil, bat guano 2066
 triazole derivatives 2960
- Histosol,**
 nitrification, *Arthrobacter* 7257
- HOE 2873,**
 Puccinia maydis, corn 2800
- HOE 6052,**
 Puccinia maydis, corn 2800
 Rhizoctonia solani, cauliflower 1103
- HOE 6053,**
 Puccinia maydis, corn 2800
- Hog cholera virus,**
 purification 10631
- Holiday institution,**
 hygiene 6732
- Holly,**
 Japanese, tobacco ringspot virus 8698
- Hollyhock,**
 hollyhock yellow mosaic virus 1063
- Hollyhock yellow mosaic virus,**
 hollyhock 1063
- Holomycin,**
 Streptomyces 10373
- Homoeopathic drug,**
 Pestalotia psidii, guava post-harvest decay 9915
- Homogenization,**
 Streptomyces granaticolor spores 7577
- Homogenizer,**
 Penicillium vitale enzymes 824
- L-Homoisoleucine,**
 Serratia marcescens 3232
- Homopisatin,**
 red clover, *Sclerotinia sclerotiorum*/*Botrytis cinerea* 1846
- D-Homopregnane,**
 microbial 1,2-dehydrogenation 5978
- Homoprotocatechuate 2,3-dioxygenase,**
 Bacillus stearothermophilus 5072
- Homoserine dehydrogenase,**
 Serratia marcescens 1653
- D-Homosteroid,**
 pregnane, microbial 1,2-dehydrogenation 5978
- Honey,**
 Saccharomyces bisporus 4218
- Honey bee,**
 Aspergillus flavus, aflatoxins 7812
 Aspergillus parasiticus, aflatoxins 7812
- Honeycomb,**
 Bacillus larvae, biological control
 Penicillium waksmani 1212
 ethylene oxide sterilisation, *Bacillus* larvae 6537
- Honeydew,**
 Claviceps purpurea, antifungal agent 4323
- Honeylocust,**
 Thyronectria austro-americana 4536
- Hop,**
 crinkle disease, *Rickettsia*, tetracycline, penicillin 7221
 hop mosaic virus/hop latent virus 1064
- Hop(Contd),**
 Septoria humuli, captan 2743
 Verticillium dahliae,
 endo-polygalacturonase/endo-cellulase 2666
- Hop latent virus,**
 hop 1064
- Hop mosaic virus,**
 hop 1064
- Hop oil emulsion,**
 antibacterial agent/antifungal agent, beer 5108
- Hordeum,**
 Erysiphe graminis hordei 252
 resistance, *Gaeumannomyces graminis* 356
- Hordeum agriocrithon,**
 resistance, *Gaeumannomyces graminis* 356
- Hordeum distichum,**
 barley stripe mosaic virus 8623
 Pyrenophora teres 9777
 resistance, *Pyrenophora teres* 9777
- Hordeum jubatum,**
 Puccinia graminis 272
- Hordeum leporinum,**
 Tilletia controversa 4520
 Tilletia hordei 4320
- Hordeum sativum,**
 see also *Hordeum vulgare*
 Erysiphe graminis hordei 3474
- Hordeum spontaneum,**
 resistance, *Gaeumannomyces graminis* 356
 resistance, mildew 1980
- Hordeum vulgare,**
 see also *Hordeum sativum*
 + wheat, *Erysiphe graminis hordei* 8620
 acetic acid, soil, wheat straw degradation 7251
- Alternaria trititica** 6204
 barley stripe mosaic virus 1831 1862 4321 5316 8623
 barley yellow dwarf virus, aphid 4322 7119
 Bipolaris sorokiniana 4327
 brome mosaic virus 7877
 brome grass mosaic virus + tobacco mosaic virus 7878
 Chloris striate mosaic disease, Rhodes grass 7128
 Claviceps purpurea, barley stripe mosaic virus 2688
 Claviceps purpurea honeydew, antifungal agent 4323
 Cochliobolus sativus 270 8626
 Drechslera teres 6206
 Erysiphe graminis, 2-aminopyrimidine derivatives 395
 Erysiphe graminis hordei 1863 1864 1865 4324 4325 4326 5317 6627 6628 4774 9775 4776
 Erysiphe graminis hordei, diphenyl pyrazolium derivatives 1114
 Erysiphe graminis hordei, imidazo-pyrimidine derivatives 4512
 Erysiphe graminis hordei, iodine staining 8594
 Erysiphe graminis hordei, pyrazolium derivatives 2612 3581 4511
 Erysiphe graminis hordei, triazole derivatives 7209
 Erysiphe graminis hordei, triforine seed treatment 2826
 Erysiphe graminis, triazinedione derivatives 1119
 Erysiphe graminis tritici 9775
 Erysiphe graminis tritici, fungicide 378
 flour inoculant, *Trichoderma viride* 788
 fungal diseases 2685
 fungal diseases, diallate 269
 Fusarium 6203
 Fusarium avenaceum 8621
 Fusarium avenaceum, soil 7876
 Fusarium culmorum 8621
 Fusarium culmorum, soil 7876

Subject index

Hordeum vulgare (Contd),

- Fusarium graminearum 8621
 - Fusarium poae 8621
 - Fusarium solani, soil 7876
 - Fusarium tricinatum 8621
 - grain, Fusarium, zearalenone 2638
 - grain, preservation, ammonia 1797
 - grain, preservation, citral caproate/allyl caproate, Aspergillus candidus, pig feed 9508
 - grains, sterigmatocystin, chromatography thin-layer 7834
 - Helminthosporium graminum 2689 3475 4315 6204
 - Helminthosporium gramineum, sporulation medium 1594
 - Helminthosporium sativum, ethirimol 6205
 - Helminthosporium sativum, nitrogen/ethirimol 4328
 - Helminthosporium sativum, soil 7876
 - Helminthosporium sativum toxin 2630
 - Helminthosporium teres 4315 6204 8629
 - oat blue dwarf virus 8625
 - Pleospora 6204
 - protoplasts, brome mosaic virus 8624
 - Puccinia graminis 272
 - Puccinia graminis hordei 4319
 - Puccinia hordei 1866
 - Puccinia hordei, oxycarboxin 2003
 - Puccinia hordei, spectral reflectance 7120
 - Puccinia hordei, zineb 2003
 - Puccinia striiformis 3476
 - Pyrenophora teres 3477 9777
 - Pythium graminicola 6208
 - resistance, Erysiphe graminis hordei 7195 8627 8767
 - resistance, fungal diseases 2685 9928
 - resistance, Gaeumannomyces graminis 355 356
 - resistance, Puccinia hordei 1981 1982 8768 9929
 - resistance, Puccinia striiformis 8769
 - resistance, Pyrenophora teres 9777
 - rhizosphere bacteria, phosphate 5470
 - rhizosphere, microorganisms 4560
 - Rhynchosporium secalis 3478 6209 9778
 - Sclerophthora macrospora 4235
 - seed, Aspergillus repens 2687
 - seed, Fusarium culmorum 2687
 - seed, microflora, beer 7697
 - seed, Penicillium cyclopium 2687
 - seed, Pyrenophora geres 6207
 - seed, Pyrenophora graminea 6207
 - seed testing, barley stripe mosaic virus 273
 - Selenophoma donacis 4329
 - soil, Cochliobolus sativus 2868
 - Stemphylium 6204
 - Stemphylium vesicarium 6204
 - Ustilago, BAS 3191 F 1109
 - Ustilago hordei 2690 3479 4315 4320
 - Ustilago nigra 5318
 - Ustilago nuda 4315 4320 8630
 - Ustilago nuda, furan-3-carboxamide derivatives 1112
 - Ustilago nuda, seed treatment, organic compounds 6377
 - Verticillium dahliae 254
- ## Hordnia circellata,
- Pierce's disease, grapevine, Lactobacillus 7152
- ## Horizontal rotary fermentor,
- Pseudomonas ovalis, gluconic acid 4034
- ## Hormiscium,
- fungicide 2053
- ## Hormococcus conorum,
- conocardin 4796
- ## Hormodendrum,
- 8-chloro-10,11-dihydrodibenz(b,f)(1,4)oxazepine transformation 4137

Hormodendrum cladosporioides,

- 8-chloro-10,11-dihydrodibenz(b,f)(1,4)oxazepine transformation 4137
- ## Hormone,
- gibberellin-like compounds, fungi, Scots pine roots 4116
 - microbial, zero gravity 4031
 - plant growth, phosphate-solubilizing bacteria, tomato rhizosphere 8038
 - rhizosphere bacteria 3628
- ## Hornbeam,
- Clostridium butyricum 417
 - wood degradation, forest soil 6401
- ## Horse blood agar medium,
- fermentation, anaerobic bacteria 3168
- ## Horse chestnut,
- Fomes fomentarius, scanning electron microscopy 4537
 - Phytophthora 2848
- ## Horse nettle,
- tobacco etch virus 1936
- ## Hospital,
- air bacterial contamination test kit 3937
 - air, hygiene 5805
 - air screening device 1510
 - air sterilisation 3733
 - anaesthesia equipment/respiratory equipment, automatic disinfection cabinet, formaldehyde + ammonia 4896
 - antiseptics 4893
 - antiseptic 7511 7512
 - asepsis 4893
 - bacteria, flower vase water, potted plants 10489
 - bedpan, disinfection 2345
 - burns unit, clothing 2346
 - carpet, bacteria 8247
 - carpet, bactericide 8248
 - chill food-service system, microbiology 5232
 - contamination control mats 10492
 - disinfectant 7510 7511 7512
 - disinfection 7514 7515 8249
 - distilled water, Pseudomonas thomasi/Pseudomonas aeruginosa 3129
 - Flavobacterium meningosepticum 4850
 - food, bacteriology 126
 - food, Yersinia enterocolitica 4187
 - hand disinfection 10495
 - hygiene 728 3910 3911 4630 4893 6733 7513 7516
 - hygiene, antiseptic 6738
 - hygiene, handwashing 7517
 - hygiene, peracetic acid aerosol 3912
 - intensive care unit, air sterilisation 3733
 - intensive care unit, antibacterial agent, copper 2347
 - intensive care unit, disinfection 3916
 - intensive care unit, hygiene 4895
 - intensive care unit, Pseudomonas, hygiene 9233
 - isolator 3913 4894
 - operating room, bacteria, surgical clothing 732
 - operating theatre, air-borne bacteria 731
 - operating theatre, air disinfection 1509
 - operating theatre, air hygiene 1511 10491
 - operating theatre, air sterilisation 3733
 - operating theatre, bacteria 1512
 - operating theatre, haemostat, bacteria 4849
 - operating theatre, hygiene 3141 7519
 - oral surgery, surgeon's glove 3919
 - plastic isolator 3914 3915
 - plastic waste, steriliser 1285
 - quaternary ammonium compound 3905
 - respirator aerosol sampler 10490
 - respirator nebulizer water, disinfection, ultraviolet radiation 3918
 - sewage, coliforms, antibiotic resistance transfer 6473
 - sewage treatment 695

Subject index

Hospital(Contd),

sink, *Pseudomonas aeruginosa* 2344
 small-volume sterile packaged product,
 quality control 7362
 soluble laundry bag, hygiene, *Escherichia coli*, poliovirus 7518
Staphylococcus epidermidis, serotyping 672
 surfaces, sterilisation, cephalosporins 3767
 surgery, hygiene 6734
 N-trimethylbenzyl ethylenediamine
 disinfectant 3906
 water bed, *Pseudomonas aeruginosa*,
 hypochlorite disinfection 10493

Host trees,

Nectria galligena, apple 7137

Hostathion,

soil, *Fusarium solani*, bean 10073

Hot air treatment,

microbial disease, sugarcane 7963

Hot-hydrochloric acid extraction,

Streptococcus 1577

Hot water treatment,

egg, shell surface 9672
 sugarcane, microbial diseases 4478

Mouse,

animal, disinfection 9234

Housed swine unit,

air, *Staphylococcus/Salmonella* 1525

Movea heterophylla,

Phytophthora cinnamomi 8597

Howard count,

tomato pulp 942

HPMTS,

Xanthomonas malvacearum, cotton 3595

HT-2 toxin,

Fusarium 2619
 milk, mass fragmentography 989

Human cytomegalovirus,

phosphonoacetic acid 1243

Humate,

soil *Actinomyces* 2859

Humatin,

resistance, *Pseudomonas aeruginosa* 10119

Humic acid,

Pg pigment, wood-decomposing fungi, soil
 7259

Humicola brevis,

enzymes 9350

Humicola grisea,

Agaricus bisporus culture 9602
 coal mine soil 2062 5479
 enzymes 9350
 pigeon pea rhizosphere 6422

Humicola insolens,

Agaricus bisporus culture 9602
 enzymes 9350

Humicola lanuginosa,

Agaricus bisporus culture 9602
 amyloglucosidase 5919
 enzymes 9350

Lipase 8370

Humicola stellata,

enzymes 9350

Humidifier,

intensive care unit, antibacterial agent,
 copper 2347

Humidifier water,

antibacterial agent, quaternary ammonium
 compound 3890
 antibacterial agent, quaternary ammonium
 compounds 2319

Humulus japonicus,

mulberry dwarf disease mycoplasma-like
 organism 8699

Humulus lupulus,

crinkle disease, *Rickettsia*, tetracycline,
 penicillin 7221
 hop mosaic virus/hop latent virus 1064
Septoria humuli, captan 2743

Humulus lupulus(Contd),

Verticillium dahliae,
 endo-polygalacturonase/endo-cellulase 2666

Humus,

nitrogen fixation, nodulation, *Rhizobium* +
 gram 5496

Hyalodendrin,

wood preservative, *Graphium* 4555

Hyaloflorae ramosa,

tobacco rhizosphere 1165

Hyalostachybotrys sacchari,

sugarcane 6228

Hyaluronate lyase,

Streptococcus 1654

Hyaluronic acid,

culture medium, *Mycobacterium leprae* 7567

Hyaluronidase,

Bacteroides 3249
Staphylococcus, agar plate tests 2417
Streptococcus 1654

Hybridization-competition,

Escherichia coli rRNA assay 4948

Hycolin,

Providencia stuartii 4654

Hydantoins,

derivative, antibacterial agent/antifungal
 agent/antiseptic 3903
 derivatives, antiviral agent 2965

Hydantoin-S-oxide,

derivatives, antimicrobial agent 10189
 L-5-alkylthiomethyl-, antibacterial agent
 5556

Hydnium,

conifers 5446

Hydrangea arborescens,

extracts, antibacterial agent 10141

Hydration,

kievitone, *Fusarium solani*, bean 8786

Hydraulic fluid,

antibacterial agent/antifungal agent,
 1,10-phenanthroline 475

Hydrazide,

antibacterial agent 7327
 N-benzylidenediphenylamine-2-carboxylic
 acid-, derivatives, antibacterial agent
 10165
 derivatives, antibacterial agent 5557
 iodophenyl, glycollic acid, derivatives,
Mycobacterium tuberculosis 8971
 morpholino-N-aceto-, hydrazones,
 antibacterial agent/antifungal agent 2152
 piperidino-N-aceto-, hyrazones,
 antibacterial agent/antifungal agent 2152

Hydrazino-pyridine,

derivatives, bactericide/fungicide 2139

Hydrazinoamine,

derivatives, *Mycobacterium tuberculosis* 4651
 8970

Hydrazone,

fluorinated, antifungal agent 5575

Hydrocarbon,

Aeromonas 7291
Agrobacterium tumefaciens, tomato 5437
 alkane, *Acinetobacter calcoaceticus*,
 rubredoxin 2447
 alkane, *Bacillus badius*, vitamin B12 6467
 alkane, *Candida albicans*, tricarboxylic acid
 cycle enzymes 5914
 alkane, *Candida parapsilosis* 4914
 alkane, *Candida tropicalis*, food/animal feed
 4189
 alkane, *Pichia guilliermondii* 4914
 alkane, yeasts 484
 antibacterial agent/antifungal agent,
 1,10-phenanthroline 475
Azotomonas 7291
Bacillus, protein 9320
 bacterial degradation, sea water 2912
 bactericide/fungicide 7345

Subject index

Hydrocarbon(Contd),

bactericide/fungicide, quaternary ammonium
methylene phosphonates 3731
Brevibacterium 7291
Candida boidinii, fatty acid 5906
Candida intermedia 8047 8044
Candida lipolytica 6468
Candida lipolytica, acetyl-CoA carboxylase
4041
Candida lipolytica, animal feed 5240
Candida lipolytica, protein, food,
ribonuclease 1717
Candida, protein, animal feed 1765
Candida rugosa, oxygen transfer coefficient
6469
Candida tropicalis 8043
Candida tropicalis, D-amino acid oxidase
5917
Candida tropicalis, amino acids 485
Candida tropicalis, fatty acid 5906
Candida tropicalis, protein 485
Candida tropicalis, protein, food,
ribonuclease 1717
Candida utilis, fatty acid 5906
degradative, estuarine water microorganisms
1185
degradation, Pseudomonas aeruginosa 1187
degradation, Pseudomonas putida 1187
degradation, sea water bacteria 4620
degradation, soil microorganisms 8045 10108
dibenzothioephene degradation, Pseudomonas
aeruginosa 4173
ethylene, soil bacteria 427
fed-batch fermentation 8939
fuel tank, microorganisms, organic acids
4617
fungicide, quaternary ammonium compound 2981
hexadecane, Torulopsis candida, alcohol
dehydrogenase 3256
Hyphomicrobium variabile, protein, amino acid
9344
methane, cellulose waste degradation 5198
methane, microbial, waste treatment 2909
methane, oxidation, Methylococcus capsulatus
473
methane, rubber latex effluent fermentation
690
microbial culture, gas chromatography 5882
microbial degradation 1188 1189 1708
microbial products 3662
microbial protein 8337 8338
microbial protein, animal feed 945 1619 1766
microbial protein, food/feed 3664
Microcyclops polymorphism, protein, amino acid
9344
microorganisms 10096
microorganisms, continuous culture 10516
microorganisms, culture apparatus 1539
Mycobacterium, wax 4148
Mycococcus 7291
oil, microbial oxidation 482
oil, Serratia maritima, sea water 8047
oil, soil microorganisms 5516
oil well, xanthan gum 3332
paraffin, Candida lipolytica, citric acid
3663 5022
paraffin, Pseudomonas carnes,
cephalosporins 4750
paraffin, Pseudomonas persicinus,
cephalosporins 4750
paraffin, Pseudomonas, sugar-lipids,
activated sludge 3665
petroleum, degradation, marine bacteria 480
petroleum wastewater, microbial treatment
691
Protaminobacter 7291
Pseudomonas methylotroph, protein, amino
acid 9344
Pseudomonas NAD-dependent alkane
dehydrogenase 6857

Hydrocarbon(Contd),

Pseudomonas NAD phosphate-dependent alkane
hydroxylase 6857
Pseudomonas rosea, protein, amino acid 9344
recovery system, antibacterial agent,
phosphoramidate 3125
Saccharomyces cerevisiae, fatty acid 5906
sea water, microbial degradation 1185 3661
sea water microorganisms 5004
soil fungi 5517
sulphate-reducing bacteria 10089
vulcanized rubber, microbial degradation 122
waste treatment, Propionibacterium
freudenreichii/Butyribacterium
rettgeri/Acetobacter aceti 2315
wood preservative 1159
yeast, cell wall polysaccharide, calf feed
6057
yeast lipid, leather fat liquoring
composition 3666
yeast protein, food/feed 133
yeast protein, pig feed 1767
yeast, tubular loop fermentor 6967
Hydrocarbon-transforming microorganism,
soil, isolation 4552
Hydrocarbons: General,
475, 474, 1183, 2097, 2909-2911, 4616, 5514,
5515, 6459, 8042, 8935-8936, 10094-10095
Hydrocarbons: Protection,
475, 7257
Hydrocarbons: Utilisation,
476-486, 1184-1190, 2093-2095, 2912-2920,
3661-3666, 4617-4624, 5516-5521, 6460-6469,
7229-7252, 8043-8047, 8939-8943, 10096-10111
Hydrocortisone,
transformation, immobilised Mycobacterium
gluciforme 7596
Hydrogen,
3216
dissolved concentration, hydrogen bacterium
culture 7561
Escherichia coli 9476
immobilized Clostridium butyricum 1696
utilization, Clostridium, sewage sludge 9203
Hydrogen bacterium,
culture 10563 10564
culture, dissolved hydrogen concentration
7561
Hydrogen-oxidising bacterium,
culture 1569
Hydrogen peroxide,
+ iron, fungi, wood cellulose degradation
6402
activated sludge bulking control 9193
antifungal agent, Candida
albicans/Trichophyton
mentagrophytes/Aspergillus niger 2953
Clostridium bifertentans spores 2933
culture medium sterilisation 8104
disinfectant 1516
Escherichia coli, catalase 2934
herpes simplex virus 2123
milk preservation 2608
oxygen, microbial culture 7531
Phytophthora citrophthora, lemon post-harvest
decay 1969
sterilisation, Bacillus licheniformis 10212
Hydrogen sulphide,
Beggiatoa, rice rhizosphere 5473
wine 5180
Hydrogenase,
Alcaligenes eutrophus 3284
bacterial 3216
Thiobacillus roseopersicina 7631
Hydrogenomonas,
animal feed 8517
culture, dissolved hydrogen concentration
7561
diphenylmethane 6466

Subject index

- hydrogenomonas (Contd),**
methoxychlor degradation 8456
microbial degradation 8458
naphthalene + heptamethylnonane 646f
protein, animal feed 6098
- hydrogenomonas eutropha,**
continuous culture 5844
culture 1569
D-ribulose-1,5-diphosphate carboxylase 3319
- hydrolase,**
bacterial, immobilised, pesticide hydrolysis 5954
N-formylmethionyl-tRNA-, *Escherichia coli* 26
- hydrolysis,**
2-phenylacetamidooxycephalosporanic acid, *Escherichia coli* penicillin amidase 5984
aesculin, *Klebsiella* 7544
casein, microorganisms, food 8470
cellobiose, *Trichoderma viride* cellobiase 5054
cellulose, *Candida utilis*, cellobiose 9443
cellulose, *Trichoderma viride* cellulase 3259
cellulose, *Trichoderma viride* beta-1,4-glucan cellobiohydrolase, cellobiose 9395
cellulose waste, yeast biomass 5704
esculin, bacteria 1562
gelatine, microorganisms, food 8470
lactose, milk, immobilised fungal lactase 9412
microbial, 3,5-diacetoxycyclopent-1-ene 889
microbial, organophosphate insecticide 113
milk protein, *Brevibacterium linens*, cheese 5221
milk protein, *Propionibacterium shermanii*, cheese 5221
milk protein, *Streptococcus cremoris*, cheese 5221
milk protein, *Streptococcus lactis*, cheese 5221
p-nitrophenyl-alpha-D-galactopyranoside, *Mortierella vinacea* alpha-galactosidase 3272
p-nitrophenyl-beta-D-glucoside, *Trichoderma viride* cellobiase 5054
penicillin G, *Escherichia coli* penicillinamidase 600
pepsinide C, *Ecillus pumilus*, desacyl-pepsinine/desacyl valyl-pepsinine 4067
pesticide, immobilised bacterial hydrolase 5954
polyphosphate, meat product, *Micrococcus/Lactobacillus* 2585
self-catalysed, amoxycillin 5081
starch, bacterial alpha-amylase, low D.E. malto-dextrin 6932 6933
starch, bacterial alpha-amylase, low D.E. starch hydrolysate syrup 6931
urea, tropical soil 456
urea, yeasts, Berthelot colour reaction 6795
- hydroquinone,**
Ustilago nuda 6377
- hydrostatic pressure,**
bacterial culture 2372
Streptococcus faecalis culture 7576
ultrafiltration, microorganisms 7534
- hydrosulphite waste,**
activated sludge treatment 2316
- hydroxamic acid,**
antibacterial agent 7326
- Hydroxy-1-iodo-1-trans octene,**
antibacterial agent 2110
- Hydroxy-2-oxovalerate,**
bacteria, pyrazon degradation 5197
- Hydroxy-3-(cyclohexylpropyl)-1,4-naphthoquinone,**
bactericide 3690
- 6-(4-Hydroxy-3-methyl-cis-2-butenylamino)-2-methylthiopurine,**
Cornebacterium fascians 5593
- 8-Hydroxy-4,4,10,10-tetramethyl-spiro-[5,5]undecane-2-one,**
Aspergillus niger 888
- 4-Hydroxy-4,5-dicarboxypentadecanoic acid,**
Penicillium spiculisoore 5893 5894
- 3-Hydroxy-5-methylisoxazole,**
phytopathogenic bacteria/fungi, plant protection 7222
selective medium, *Phytophthora*, soil 10054
selective medium, *Phytophthora*, soil, plants 7584
- Hydroxy anisole,**
butylated, antimicrobial agent, food preservative 958
- alpha-Hydroxy carboxylic acid,**
derivatives, *Saccharomyces cerevisiae* 5150
- beta-Hydroxy carboxylic acid,**
derivatives, *Saccharomyces cerevisiae* 5150
- Hydroxy-cyclopentane-1,4-dione,**
2-substituted-4(R)-, fungi 4140
- 4[2-(3-Hydroxy)-thianaphthenyl]-2-hydroxy-3-butenoic acid,**
Pseudomonas aeruginosa, dibenzothiophene degradation 4173
- 3-Hydroxyacyl CoA dehydrogenase,**
Escherichia coli fatty acid oxidising enzyme complex 4827
- Hydroxyanisole,**
butylated, antibacterial agent/antifungal agent 5592
- Hydroxyapatite,**
coated glass beads, oral bacteria continuous culture 6757
- Hydroxyapatite-coated glass beads,**
anti-dental plaque agent, *Streptococcus sanguis* 2107
- p-Hydroxybenzaldehyde,**
marine *Pseudomonas*, antibacterial agent 6544
- p-Hydroxybenzoic acid,**
degradation, *Rhizobium* 6021
- p-Hydroxybenzoic acid ester,**
silicon derivatives, antibacterial agent, fish stuffing preservation 5551
- poly(D-beta-Hydroxybutyrate),**
Azotobacter vinelandii 4142
- Hydroxycinnamic acid,**
degradation, *Polyporus circinatus* 121
- beta-Hydroxycurvularin,**
Alternaria tomato 4139
- Hydroxycyclopropyl-L-glutamine,**
Coprinus atramentarius 6830
- 9-Hydroxyellipticine,**
antibacterial agent 1229
- 8-Hydroxyerythromycin A,**
cyclic 11,12-carbonate 3043
- 9-Hydroxyerythromycin A,**
cyclic 11,12-carbonate 3044
- N-2-Hydroxyethylpiperazine-N-2-ethanesulphonic acid buffer,**
avian cell culture, avian disease viruses 4929
- Hydroxylation,**
9-oxo-12-prostenoic acid, *Microascus triconosporus* 3326
aliphatic, fungi 5144
aromatic, fungi 5144
butenolide, *Curvularia lunata* 5103
cardenolide, *Aspergillus ochraceus* 5104
cardenolide, *Cunninghamella blakesleeana* 5104
cardenolide, *Curvularia lunata* 5104
p-chlorophenylacetate, *Arthrobacter* 120
3beta,7beta-dihydroxykaurenolide, *Rhizopus arrhizus* 2509
dioxxygenated 5alpha-pregnanes, *Calonectria decora* 2508

Subject index

Hydroxylation(Contd),

- dioxygenated Salpha-pregnanes, *Daedalea rufescens* 2508
- dioxygenated Salpha-pregnanes, *Rhizopus halogeno-oxo-androstanes*, *Calonectria decora*/*Rhizopus nigricans*/*Aspergillus ochraceus* 58
- oxygenated Salpha-androstanes, *Leptosporus fissilis* 3325
- progesterone, *Aspergillus*, 11alpha-hydroxyprogesterone 4115
- steroid, *Calonectria decora* 6929
- steroid, *Monosporium olivaceum*, steroid 11alpha-hydroxylase 3320 3321
- steroid, *Rhizopus nigricans* 6929
- tetrahydrocannabinol, *Pellicularia filamentosa* 4146
- tetrahydrocannabinol, *Streptomyces lavendulae* 4146
- 4,4,10,10-tetramethyl-spiro-[5,5]-undecane-2, 8-dione, *Aspergillus niger* 888

epsilon-N-Hydroxylysine,

- Aerobacter aerogenes*, L-lysine 9335
- cis-3S,4S-Hydroxymellein, *Cercospora* 7826

4-Hydroxymethyl-4,10,10-trimethyl-spiro-[5,5]-undecane-2,8-dione,

- Aspergillus niger* 888

(Hydroxymethyl)methyldithiocarbamate,

- Xanthomonas phaseoli*, bean 4522

Hydroxypalmitoyl lysine,

- Agrobacterium tumefaciens* 5151

Nalpa-3-Hydroxypalmitoylornithine,

- Gluconobacter cerinus* 3348

2-Hydroxyphenazine-1-carboxylic acid,

- Pseudomonas aureofaciens* 4036

11alpha-Hydroxyprogesterone,

- progesterone hydroxylation, *Aspergillus* 4115

2-(2-hydroxypropyl)-6-methyl-1,3-dioxan-4-ol,

- antibacterial agent/antifungal agent 3721

Hydroxypropyl methylcellulose,

- artificial tear solution, antibiotics 4712

2-Hydroxypyridine,

- degradation, soil *Arthrobacter pyridinolis*, pigment 4129

Hydroxyquinoline,

- 5-chloro-7-iodo-8-, *Epidermophyton floccosum* 2119

8-Hydroxyquinoline,

- antibacterial agent, laundry oil 3140

antiviral agent 526

- derivatives, antiviral agent 526

Hydroxysteroid dehydrogenase,

- bacterial, immobilisation, steroid 5955

12alpha-Hydroxysteroid dehydrogenase,

- Clostridium perfringens* 3285

3alpha-Hydroxysteroid dehydrogenase,

- Clostridium perfringens* 3285

7alpha-Hydroxysteroid dehydrogenase,

- Clostridium perfringens* 3285

3beta-Hydroxysteroid oxidase,

- Streptomyces violascens* 31

Hydroxystyrene,

- hydroxycinnamic acid degradation, *Polyporus circinatus* 121

Hydroxytoluene,

- butylated, antibacterial agent/antifungal agent 5592

Hygiene,

- 2408

- abattoir 5812 6745 7522 7524

- abattoir, cold water ultra-high pressure cleaning 5813

- abattoir, disinfectant 4897

- abattoir, *Salmonella* 5814

- abattoir, *Salmonella*, pig carcass 8260

- air 3902

- air, *Candida* 7462

Hygiene(Contd),

- air, cattle stable 1519

- air, containment system, hepatitis virus

- zonal centrifugation 2288

- air, food industry 3840

- air, high-vacuum steam sterilizer 3735

- air, operating theatre 1509 10491

- aircraft food 6739

- animal feed 9235

- animal feed producing plant 9235

- animal houses, disinfection 9234

- animal husbandry 1615

- animal production 6744

- antibacterial agent/antifungal agent,

- epsilon-caprolactam + alkanediamine

- derivatives 2149

- antibacterial agent/antifungal agent,

- n-oxypyridyl thiol aluminium derivatives

- 749

- antibacterial agent/antifungal agent,

- pyridazine-2-oxide derivatives 3932

- antibacterial agent, thiourea derivatives

- 3933

- antiseptic 6725

- aseptic food packaging, air microflora 738

- automatic disinfection cabinet, formaldehyde

- + ammonia, anaesthesia equipment/respiratory

- equipment 4896

- bacon factory, cold water ultra-high pressure

- cleaning 5813

- bacterial skin sampler 10534

- bedpan 2345

- beef carcass 170

- beef carcass, chlorine wash 741

- beer fermentation tank 4901

- beverage industry 2353

- beverage, single-use containers 7795

- brewery 8444

- burns unit, clothing 2346

- butchers shop, *Salmonella* 7761

- canned food 5810

- canned fruit/vegetable, *Geotrichum* 9593

- canning industry 5810

- cattle 3146

- cattle breeding unit, waste treatment 6706

- cattle industry 1520

- cattle, mastitis 1523

- cattle, *Mycoplasma agalactiae*, teat

- dip/sanitizer 735

- cattle slurry surface aeration 6705

- cattle stall, bacteria 2290

- chicken 3398

- chicken, *Escherichia coli*, antibiotics

- resistance 8947

- chicken, *Staphylococcus* 740

- confectionery plant 745

- cosmetic 2163 3935 4022 4698 4909 7354

- cosmetic, microorganisms 10505

- cosmetic preservative 4699

- dairy industry, disinfectants 6743

- dental unit water 5794

- dialyser, automated cleaning device 729 730

- disinfectant 1254 1522 6725

- disinfection 10486

- drinking water 3898

- drinking water chlorination 6717

- dry milk product, lactic acid/pyruvic acid

- 3386

- egg shell surface, hot water treatment 9672

- eye cosmetic 4910

- eye, soft contact lens 4911

- farinaceous products 10500

- food 739 2348 2349 2592 3223 4633 4898 5199

- 6815 6985 6986 8257 9237 10497

- food, aseptic slicing 8525

- food, coliforms, *Escherichia coli* 6988

- food industry 737 3147 4899 5809 6740 6741

- 7526 8526

- food industry, water, bacteriology 5795

- food packaging 5253

Subject index

Hygiene (Contd),

food poisoning 7715
 food preservation, chilling/freezing 5250
 food processing plant 10498
 food, *Salmonella* 6029
 food shop 6987
 food, single-use containers 7795
 food utensils 7713
 food, *Yersinia enterocolitica* 6991
 fresh mussels 743
 game meat 10499
 germicide, quaternary ammonium compound 3905
 ground water 6721
 haemodialysis rinsing solution 3128
 haemostat, operating theatre 4849
 hand, antibacterial agent 1517
 hand, antibacterial agent/antifungal agent, epsilon-caprolactam + alkanediamine derivatives 2149
 hand, antibacterial agent, soap 4906
 hand, chlorhexidine gluconate 4908
 hand, dibromoisocyanuric acid 1518
 hand disinfection 6735 10495
 hand, hydrogen peroxide disinfectant 1516
 hexachlorophene-impregnated underwear, space flight 4513
 holiday institution 6732
 hospital 728 3910 3911 4630 4893 6733 7513 7516
 hospital air 5805
 hospital, air bacterial contamination test kit 3937
 hospital, antiseptic 6738 7511 7512
 hospital, bacteria, flower vase water, potted plants 10489
 hospital carpet, bactericide 8248
 hospital, contamination control mats 10492
 hospital, disinfectant 7511 7512
 hospital, disinfection 7514 7515 8249
 hospital, germicide, quaternary ammonium compound 3905
 hospital, handwashing 7517
 hospital intensive care unit 3916
 hospital intensive care unit, *Pseudomonas* 9233
 hospital, isolator 3913 4894
 hospital operating theatre 7519
 hospital, peracetic acid aerosol 3912
 hospital, plastic isolator 3914 3915
 hospital sewage treatment 695
 hospital, soluble laundry bag, *Escherichia coli*, poliovirus 7518
 humidified oxygen, filter 3950
 ice cream 3387 3388 5811 9543
 industrial product 4848
 infusion therapy 3221
 intensive care unit 4895
 intensive care unit, antibacterial agent, copper 2347
 intravenous infusion bottle plug 5806
 iodophor teat dip, iodine, milk 8476
 iodophor udder wash/teat dip, iodine, milk 8475
 liquid manure treatment 1455
 mastitis, milking machine 734
 meat 4209 6746 7528 9243
 meat export plant 3926
 meat, fungi 8505
 meat, hot boning 8509
 meat industry 3927 5812 7527 7528 8259 9240 9241 9242
 meat industry, air-borne microorganisms removing device 7464
 meat industry, surface sampling, contact plate method/swab method 7521
 meat, microbial standards 7013
 meat-packing plant effluent 6697
 meat product 3928
 meat product, fungi 8505
 meat, *Salmonella* 7525
 meat-stripping machine 8258

Hygiene (Contd),

milk 913 2350 2351 3148 4900 8255
 milk bottle 2352
 milk formula 2352
 milk industry 8256
 milk plant, mastitis 3923
 milk product 3148
 milk, resazurin test 7730
 milk, *Staphylococcus enterotoxin* 2648
 milking 2351
 milking machine 3924
 milking, mastitis 1724
 operating room, surgical clothing 732
 operating theatre 1512 3141
 operating theatre air 1511
 operating theatre, air-borne bacteria 731
 oral 10646
 oral, alexidine dihydrofluoride, dental plaque/dental calculus/dental caries/gingivitis 1533
 oral, anti-dental plaque/anti-dental caries agent 746
 oral, benzethonium polymer 1536
 oral, bis-biguanide, dental plaque/dental caries/dental calculus 9244
 oral, bis-biguanido hexane compound, dental plaque 8261
 oral, cetylpyridinium chloride mouthwash, dental plaque 1537
 oral, chlorhexidine, dental plaque 1538
 oral, chlorhexidine toothpaste, antibacterial agent 5815
 oral, dental floss 1531
 oral, dental plaque/dental caries 747
 oral, dentifrice, *Bacillus acidophilus* 2354
 oral, dentifrice, *Bacillus polymyxa* polysaccharide 2510
 oral, dentifrice, dental caries, fluoride + monofluorophosphate 3931
 oral, dentifrice, dental caries, monofluorophosphate 3930
 oral, dentifrice, fungal dextranase 10502
 oral, fluoride, dental caries 1532
 oral, fluoride dentifrice, gingivitis 4903
 oral, fluoride mouthwash, dental caries 7529
 oral, fluorine/phosphate/calcium-containing ion-exchange resins, dental caries 8262
 oral, iodine-containing compounds, dental plaque, antibacterial agent 10504
 oral, microbial dextranase/cariogenase, dental plaque 4058
 oral, monofluorophosphate composition, dental caries/dental calculus 1534
 oral, *Penicillium dextranase*, dental plaque 4902
 oral, quaternary ammonium compounds 1535
 oral, quaternary ammonium compounds, dental caries/dental calculus 2145 2146
 oral surgery, surgeon's glove 3919
 oral, toothbrush steriliser 1281
 oral, toothpaste, dental caries 10503
 packaged minced meat 2583
 pharmaceutical 2163
 pig abattoir, *Salmonella* 9239
 pig drinking trough 3145
 pig industry 1524
 pig production unit, air ionization 7463
 pig slaughtering 742
 pig slurry surface aeration 6705
 pigeon farm 3925
 pork carcass/pork product, *Salmonella* 1528
 poultry carcass 7523
 poultry carcass, *Salmonella* 7762
 poultry egg, *Salmonella*, dazomet 733
 poultry farm water 4874
 poultry hatchery 9236
 quinoxaline derivatives, antibacterial agent/antifungal agent 5598
 raw milk 2569
 reservoir water 4875

Subject index

Hygiene (Contd),

respirator 10490
respirator nebulizer water, disinfection,
ultraviolet radiation 3918
respiratory apparatus 9230
room, antifungal agent 3909
Salmonella 7465
sanitizer, low-foaming non-ionic surfactant
antimicrobial agent 4890
sausage, starter bacteria 1751
sea water, *Staphylococcus* 4888
sewage chlorination 6685
sewage disposal, water pollution 7494 7495
sheep industry 1526
skin 10646
skin, antibacterial agent 1517
skin, antiseptic, alcoholic chlorhexidine
8252
skin, antiseptic, alcoholic chloroxylenol
8252
skin, chlorhexidine gluconate 4908
skin, deodorant 748
skin, disinfectant, antimicrobial agent
10494
skin, hexachlorophene 4905
skin, hydrogen peroxide disinfectant 1516
skin, soap 4904
skin, soap, germicide, trichloro-2-hydroxy
diphenyl ether 4907
skin, tribromosalan 4905
skin, triclosan 4905
small laboratory animals unit 3144
soap/deodorant soap, skin bacteria 5816
soft contact lens soaking solution,
Pseudomonas aeruginosa/*Pseudomonas cepacia*
4912
soil 3902
surgery 6734
surgical face mask 9231
surgical glove 1514
surgical hand, Remanex disinfection 3920
swimming pool water 3143 3899
toilet, bactericide 727
toilet bowl, bacteriostat 4891
tomato pulp, Howard count 942
N-trimethylbenzyl ethylenediamine
disinfectant 3906
udder, iodoohor 3921
udder, teat dip, antibacterial agent 5808
udder, teat dip disinfection 10496
vacuum packaged frankfurter 7016
veal calf carcass, *Salmonella* 1521
veterinary 8257
washroom, food factory 3929
waste composting 1459 3114
waste treatment 2293
wastewater irrigation 3874
wastewater treatment 3864 3865
water 3902 7494

Hygrolytin,

Streptomyces hygroscopicus 5956

Hygromycin,

4711
structure 4806

Hygromycin A,

2171

Hygromycin B,

2171

Hygrosin,

10221

Hymenocystes,

5-fluorocytosine 7334
yellow birch 6393

Hymenula cerealis,

wheat 290

Hymexazol,

selective medium, *Phytophthora*, soil 10054

Hyperforin,

structure 639

Hyperoestrogenism,

Fusarium roseum 973

Hypersensitive response,

bean, *Pseudomonas phaseolicola*, *Pseudomonas*
mors-prunorum 8602

Hypochytrium catenoides,

fungal oospore parasite, soil 8881
soil, *Aphanomyces euteiches* mycoparasitism
5480
soil, *Fythium mycoparasitism* 5480

Hypoholoma fasciculare,

fasciculines 8423
hypoholomines 8423

Hypoholomines,

hypoholoma fasciculare 8423

Hypomicrobium,

animal feed/food, methanol 820
denitrification, methanol, wastewater 5780

Hypomicrobium variabile,

amino acid 9344
protein, food, animal feed 9344

Hypomicrobium X,

phosphoglycerate mutase 1670

Hypomyces,

uricase, culture medium 866

Hypomycetes,

Scopulariopsis brevicaulis, uricase 53 54

Hypobaric pressure,

fruit/vegetable post-harvest decay fungi
7183

Hypochlorite,

beef 7767
beef sanitization 3549
disinfectant 496
hospital water bed disinfection, *Pseudomonas*
aeruginosa 10493
teat dip, cattle mastitis 3922

Hypochlorous acid,

bactericide, meat 965

Hypocholesterolemic agent,

antibacterial agent/antifungal agent 7346
citrinin 5727

Hypochoytrium catenoides,

Phytophthora megasperma oospores, soil 6417

Hypodermic needle,

sterilised, package 4710

Hypotensive agent,

microbial 9500

Hypoxanthine arabinoside,

+ interferon, antiviral agent 5584

Hypoxylon,

antibiotics 9026
alpha-methylstyrene 8991
soil, Pg pigment 7259
styrene 8991

Hypoxylon annulatum,

soil, pg pigment 7259

Hypoxylon mammatum,

aspen, resistance 5455
aspen, *Saperda inornata* 5454
trembling aspen 415

Hypoxylon multiforme,

antibiotics 9026

Iberis saxatilis,

cucumber mosaic virus 8676

Ice cream,

bacteriology 3387 3388
bacteriology, hygiene 9543
coliforms, antibiotic resistance 6028
Escherichia coli, antibiotic resistance 6028
hygiene 3387 3388 5811
injured coliforms, recovery medium 145
lactose, fungal beta-galactosidase 8486
quality control 144
Streptococcus group D 8485

Subject index

ICMSF method,

Clostridium perfringens, food 7721

Ictalurus punctatus, bacteriology 7774

Idet-20,

antifungal agent, plant protection 386

Idli,

soybean fermentation 7027

Torulopsis candida/*Trichosporon pullulans*
4163

L-Idonic acid,

2-keto-L-gulononic acid, *Gluconobacter*
melanogenus 3229

2-keto-L-gulononic acid, *Pseudomonas putida*
3229

L-sorbose, *Gluconobacter melanogenus* enzymes
5024

Idoxuridine,

resistance, herpesvirus 10185

Ilex crenata,

tobacco ringspot virus 8698

Imazalil,

Colletotrichum musae, banana post-harvest
decay 3540

Penicillium digitatum, Citrus post-harvest
decay 4441

Penicillium italicum, Citrus post-harvest
decay 4441

resistance, fungi 5001

IMC 90007,

Indian meal moth 2541

Imidazo-pyrimidine,

derivatives, fungicide, plant protection
4512

Imidazole,

1-(beta-(allyloxy)-2,4-dichlorophenethyl)-,
Geotrichum candidum, lemon post-harvest
decay 3541

1-(beta-(allyloxy)-2,4-dichlorophenethyl)-,
Penicillium digitatum, citrus post-harvest
decay 3541

1-(beta-(allyloxy)-2,4-dichlorophenethyl)-,
Penicillium italicum, citrus post-harvest
decay 3541

Candida albicans, Coulter Counter 4668

derivatives, antibacterial agent 3684

derivatives, antifungal agent 4671 10172

derivatives, fungicide, cosmetic 8079

derivatives, fungicide, pharmaceutical 8075

derivatives, fungicide, plant protection

8079

derivatives, fungistat/fungicide 10178

derivatives, monoformyl diaminomaleonitrile
2130

Saccharomyces cerevisiae, Coulter Counter
4668

Imidazole-4,5-dicarboxamide,

antimicrobial agent 2134

Imidazolinine,

derivatives, fungicide/bactericide, plant
protection 9988

Imidazolidine-1,4-dione,

derivatives, bactericide/fungicide 2135

derivatives, fungicide, plant protection
2135

Imidazolidinedione,

5-hydroxy-1-[[[5-nitro-2-furanyl)methylene]am-
ino]-2,4-, antibacterial agent 7321

Imidazolone,

bis-trifluoromethyl-imine-derivatives,
fungicide/plant protection 5429

derivatives, fungicide, plant protection
8815

Imidazolyl,

derivatives, bactericide/fungicide 1271

Imidazolyl-alkyl-hydrogen monothiosulphate,

derivatives, antibacterial agent 1221

Imidazolyl-fatty acid,

derivatives, antifungal agent 8078

Imidazolyl-indane,

derivatives, antifungal agent 6512

Imidazolyl-O,N-acetal,

derivatives, antifungal agent 3704

Imidazolyl-tetralin,

derivatives, antifungal agent 6512

Imidazolylacetic acid amide,

derivatives, antifungal agent 515

Imide,

dichloromaleic, derivatives, fungicide, plant
protection 9982

2-Imino-2H-s-triazino[2,1-b]-benzothiazole,

Botrytis cinerea 6515

Immersion filter,

waste treatment 2317

Immobilisation,

Acetobacter suboxydans 5883

Achromobacter lunatus bacteriolytic enzyme
6851

alpha-amylase 4057

amyloglucosidase, *Aspergillus niger* 3255

antibodies 9352

Aspergillus awamori glucoamylase 8365

Aspergillus niger 653

Aspergillus niger amyloglucosidase 5920

Aspergillus niger glucoamylase 8365

Aspergillus ochraceus aminocyclase 6858

Aspergillus terricola terrilytin 8398

Bacillus subtilis cephalosporin

acetyl esterase, 7-aminocephalosporanic acid
829

Bacillus subtilis protease 9352 9353

bacterial hydroxysteroid dehydrogenase,
steroid 5955

Bacterium caodaveris 803

Beneckea harveyi

luciferase/(NAD(P)H):FMN oxidoreductase 2479

brewing yeast, beer 8439

bromelin 4057

calcium alginate gel, microbial cells 6819

calcium alginate gel, microbial enzymes 6819

calcium alginate gel, microbial organelles
6819

chloroperoxidase 4057

enzyme 796

enzyme conjugates 7612

enzymes, microorganisms 2

Escherichia coli 803

Escherichia coli lipamide dehydrogenase
8371

Escherichia coli nitrate reductase 9375

Escherichia coli penicillin amidase 8380
8331

fungus lactase, lactose hydrolysis 9412

galactosidase 4057

glucoamylase 4057

glucose oxidase, *Aspergillus niger* 4057

invertase 4057

microbial cells 7595

microbial enzyme 802 825 826 8346

microbial enzyme, concanavalin A-magnetite
8305

microbial enzyme, photo-crosslinkable resin

oligomer 5957

microbial enzymes 4056 8345 9352

microbial glucose isomerase 9400

microbial glycoenzymes 4057

microbial polysaccharide, concanavalin

A-magnetite 8305

microbial protein, concanavalin A-magnetite
8305

microbial proteins 9352

Micrococcus luteus, histidine ammonia-lyase,

L-histidine, urocanic acid 7630

microorganisms 825 1620 10644

microorganisms, concanavalin A-magnetite
8305

Penicillium chrysogenum 803

peroxidase 4057

porous cellulose beads, *Candida utilis*

invertase 6899

Subject index

Immobilisation (Contd),

- protease 4057
- Proteus rettgeri* 803
- Pseudomonas oleovorans* rubredoxin 8395
- Rhizopus amyloglucosidase* 5921
- Rhodospirillum rubrum* chromatophores, polyacrylamide 2415
- Rhodotorula gracilis* 803
- Streptomyces griseus* protease 7650
- Streptomyces phaeochromogenes* glucose isomerase, polyacrylonitrile 5952
- xylose isomerase, *Streptomyces olivochromogenes* 7668
- yeast alcohol dehydrogenase 9353
- yeast glucose-6-phosphate dehydrogenase, polyacrylamide gel 5953
- yeast hexokinase, polyacrylamide gel 5953
- Immobilised Acetobacter,**
 - acetic acid 1620
- Immobilised aminoacylase,**
 - microbial 3248
- Immobilised L-asparaginase,**
 - Escherichia coli*, antitumour agent 4123
- Immobilised Bacillus coagulans,**
 - glucose isomerase, D-fructose 5067
- Immobilised Clostridium butyricum,**
 - hydrogen 1696
- Immobilised Corynebacterium simplex,**
 - cortisol transformation, prednisolone 5977
- Immobilised cyclodextrin glycosyltransferase,**
 - Bacillus*, cyclodextrin 5939
- Immobilised dextrose isomerase,**
 - Streptomyces olivochromogenes*, dextrose, levulose 1649
- Immobilised enzyme,**
 - 5040
 - microbial 7248
 - microbial, pharmaceutical 5039
- Immobilised Escherichia coli,**
 - 1620
 - aspartase 9364
 - aspartase, L-aspartic acid 3231
 - beta-galactosidase 4087
 - lactase 3289
 - penicillin 9077
- Immobilised beta-galactosidase,**
 - Curvularia inaequalis* 6890
- Immobilised glucoamylase,**
 - microbial 3248
- Immobilised glucose isomerase,**
 - microbial 3248
- Immobilised glucose oxidase,**
 - microbial 3248
- Immobilised L-glutaminase,**
 - Escherichia coli*, antitumour agent 4123
- Immobilised hydrolase,**
 - bacterial, pesticide hydrolysis 5954
- Immobilised invertase,**
 - microbial 3248
- Immobilised Kluyveromyces lactis,**
 - beta-galactosidase 4087
- Immobilised Lactobacillus bulgaricus,**
 - beta-galactosidase 4087
- Immobilised Lactobacillus casei,**
 - malic acid decarboxylase, L-malic acid 7636
- Immobilised lysozyme,**
 - 4123
- Immobilised Micrococcus luteus,**
 - histidine ammonia-lyase, L-histidine, uracanic acid 7630
- Immobilised microorganism,**
 - microbe thermistor 9318
- Immobilised Mycobacterium globiforme,**
 - hydrocortisone transformation 7596
- Immobilised penicillin amidase,**
 - bacterial, + penicillin, 6-amino-penicillanic acid 4763
 - Escherichia coli*, phenylmethylsulphonyl fluoride 7644

Immobilised penicillinase,

- penicillin 589
- Immobilised protease,**
 - 5040
 - cheese 6046
 - microbial 3248
- Immobilised Saccharomyces cerevisiae,**
 - 1620
 - microbe thermistor 9318
- Immobilised Saccharomyces lactis,**
 - beta-galactosidase 4087
- Immobilised Saccharomyces pastorianus,**
 - invertase 3289
- Immobilised Serratia marcescens,**
 - 1620
- Immobilised Streptomyces aureus,**
 - glucose isomerase, D-fructose 5067
- Immobilised Streptomyces griseus,**
 - glucose isomerase, D-fructose 5067
- Immobilised Streptomyces olivaceus,**
 - glucose isomerase, D-fructose 5067
- Immuno-India ink method,**
 - Aeromonas salmonicida*, fish furunculosis 9267
- Immunoassay,**
 - penicillin G, *Escherichia coli* beta-galactosidase 4762
- Immunocytochemical method,**
 - enzyme-linked, aflatoxins, *Aspergillus parasiticus* 9694
- Immunodiffusion,**
 - Escherichia coli* K antigen 5842
 - Escherichia coli* O antigen 5842
 - racial, *Staphylococcus aureus* epidermolytic toxin 4281
 - Rhizobium trifolii*, subterranean clover 5493
 - serotyping, *Escherichia coli* 10562
- Immunodiffusion test,**
 - Coccidioides immitis* 10621
- Immunoelectrophoresis,**
 - counter-, *Aspergillus fumigatus* antibodies 10614
 - counter-, microbiology 3161
 - counter-, *Streptococcus* group D 4973
 - countercurrent, oral vaccine, antigens 3083
 - Escherichia coli* K antigen 5842
 - Escherichia coli* O antigen 5842
- Immunofluorescence,**
 - Beijerinckia*, rice rhizosphere, nitrogen fixation 5486
 - Clostridium perfringens* enterotoxin 7853
 - coconut root wilt virus, tobacco 1958
 - direct, *Streptococcus* group B 3998
 - human cytomegalovirus 1607
 - indirect, *Neisseria gonorrhoeae* 3991
 - micro-, *Chlamydia trachomatis* antibody 1564
 - Mycobacterium lepraemurium* 9312
 - Neisseria gonorrhoeae* 1573
 - polystyrene microscope tray 3159
 - Pseudomonas aeruginosa* 1575
 - rabies virus, glycerine-preserved tissue 2400
 - Salmonella*, poultry litter 2387
 - soil Nitro bacter 10060
 - Streptococcus* group A 10596
 - Streptococcus* group A, bromelase 10597
 - template 10510
 - Thiobacillus ferrooxidans*, acid mine drainage 462
 - wheat streak mosaic virus, mite 7891
 - yeasts culture purity 5857
- Immunofluorescence adsorption microtest,**
 - botulinum toxin 994
- Immunogen,**
 - Salmonella typhimurium* oligosaccharide 7671
- Immunogenic fraction,**
 - Pasteurella multocida* 5137

Subject index

- Immunoglobulin,**
 - + polymer-polypeptide 3949
 - human, antitetanus 3834 3835
- Immunoglobulin G,**
 - rubella virus, solid-phase radioimmunoassay 1609
- Immunoglobulin M,**
 - rubella virus, solid-phase radioimmunoassay 1609
- Immunological adjuvant,**
 - Mycobacterium 3226
 - Nocardia 3226
- Immunology,**
 - 794 800 2368 2369 3160 5005
 - agglutination 1552
 - antigen + antibody 2366 2367
- Immunosorbent assay,**
 - enzyme-linked, aflatoxins 9695
- IMP,**
 - microbial 3217
- Impedance,**
 - automated, microorganisms, frozen vegetable 9594
- Impietratura virus,**
 - citrus 3494
- Incubator,**
 - bacterial culture 7539
 - transparent plastic, anaerobic glove box 6752
- Indazole,**
 - derivatives, antimicrobial agent 3729
- Indeno-pyridine,**
 - derivatives, antibacterial agent 10161
- Indian cassia,**
 - Colletotrichum gloeosporioides 3615
- Indian meal moth,**
 - Bacillus thuringiensis insecticide 2541
- Indicator bacterium,**
 - faecal, ice-covered river water 3132
- Indicator plate,**
 - triphenyl tetrazolium chloride, microbiology 6757
- Indigofera pulchella,**
 - Ravenelia mitteri 2662
- Indirect enzyme-labelled antibody test,**
 - 1551
- Indium,**
 - + bleomycins 6627
- Indole,**
 - derivatives, + (4-aminophenyl)thiazole
 - derivatives, Schiff bases, antituberculous agent/antifungal agent 8969
 - derivatives, antibacterial agent/antifungal agent 5597 6530 7349 8099
 - Kovacs' reagent, quality control 4945
 - octahydro-, phosphorylthio-acetyl
 - derivatives, fungicide, plant protection 4513
- Indole-3-acetic acid,**
 - cucumber mosaic virus, chilli 3555
 - Rhizobium phaseoli, bean 5491
- Indole-3-carboxaldehyde,**
 - marine Pseudomonas 6544
- Indole-3-lactic acid,**
 - indole-3-acetic acid, Rhizobium phaseoli 5491
- Indole acetic acid,**
 - Leveillula taurica, pepper 9952
- Indole butyric acid,**
 - Alternaria solani, cellulase 3697
 - Alternaria tenuis, cellulase 3697
 - cucumber mosaic virus, chilli 3555
 - Leveillula taurica, pepper 9952
- Indole-deoxyribonuclease medium,**
 - Enterobacteriaceae 7541
- Indole propionic acid,**
 - Alternaria solani, cellulase 3697
 - Alternaria tenuis, cellulase 3697
- Indolizino-isoquinoline,**
 - derivatives, antimicrobial agent 3730
- Indoly1-3-alkane alpha-hydroxylase,**
 - Pseudomonas XA 8366
- Indolyl acetic acid,**
 - rhizosphere bacteria 3628
- Indonesian tape ketan,**
 - fermentation, Amylomyces rouxii + yeast 8452
- Induction,**
 - cholerae, Vibrio cholerae, lincomycin 5291
 - enterotoxin, Escherichia coli, lincomycin 5291
- Industrial fluid,**
 - antibacterial agent/antifungal agent, 1,10-phenanthroline 475
 - bacteria, dipslide 5832
- Industrial microbiology,**
 - 5879
- Industrial product,**
 - microbial pollution 4848
- Industrial system,**
 - microorganisms 8208
- Industrial waste,**
 - toxicity assay, Pseudomonas 3107
- Industrial wastewater,**
 - denitrification 9178
- Industrial water system,**
 - antibacterial agent/antifungal agent, benzene derivatives 2131
 - antibacterial agent/antifungal agent, epsilon-caprolactam + alkanediamines 2318
 - antibacterial agent/antifungal agent, epsilon-caprolactam + N-alkylalkylene diamine reaction product 3126
 - antibacterial agent/antifungal agent, paraldol 3721
 - antibacterial agent, 2-bromo-2-hydroxyimino-acetophenone derivatives 8065 8066
 - antibacterial agent, quaternary ammonium compound 3890
 - antibacterial agent, quaternary ammonium compounds 2319
 - bactericide/fungicide 1494 7345
 - bactericide/fungicide, isothiazole derivatives 1268
 - bactericide/fungicide, quaternary ammonium methylene phosphonates 3731
 - bactericide, methylene bithiocyanate 1495
 - canned food cooling water, chlorine compounds 1780
 - chlorination 9213
 - disinfection, chlorine 10477
 - drip irrigation system, sulphur bacteria 716
 - fibreboard industry, microbial slime 10471
 - fungicide/bactericide, halocyanacetamide + haloacetic ester 1496
 - fungistat/bacteriostat, benzisothiazole-3-one derivatives 534
 - metal industry, microbial purification 5508
 - microbial film, chlorination 717
 - microbial fouling 10468
 - microbial fouling, chlorine 10469
 - microorganisms 8208
 - paper industry effluent, fungal treatment 10450
 - paper mill, Enterobacteriaceae, nitrogen fixation 1493
 - quality 1501
 - slime-producing coryneform bacteria 9214
 - slimicide, alpha-bromo-p-methylacetophenone + 1,3-dichloroacetone oxime acetate 10470
 - slimicide, alpha-chloro-o-acylbenzaloxime derivatives 5891
 - slimicide, 1,3-dichloroacetone oxime acetate + beta-bromo-beta-nitrostyrene 2320
 - slimicide, dithiocarbamate derivatives 6526
 - slimicide, tetrachlorotetrahydrothiophene-1,1-dioxide + bis(trichloromethyl)-sulphone 3124
- Infant food,**
 - bacteriology 2562

Subject index

- Infectious hepatitis virus,**
food 7716
wastewater polluted food 8465
- Infiltration,**
vacuum, rickettsia-like organism, peach phony disease 5840
- Inflorescence dieback,**
Colletotrichum gloeosporioides, betel nut palm 8679
- Influenza virus,**
4020
adamantanamine derivatives, DARC/PELCO system 2964
adamantane derivatives 4680 4681
amantadine 4574
amantadine resistance, genetic marker 10115
aminophenyl-adamantane derivatives 2963
amitozin 5591
antibiotic 66-400 10336
antibodies, single radial haemolysis test 10635
antiviral agent 4474
biguanide derivatives 1253 6520
calcium elenolate 4674
cell culture 10632 10633
cell culture, gentamicin 611
Chelidonium alkaloids 8994
colchaminethioteh 5591
continuous-flow ultracentrifugation 3205
3-deazaquanine/3-deazaquanosine/7-deazaquanyl ic acid 10120
dihydroxyanthraquinone derivatives 7342
disruption, vaccine 2276
fluorenal 5586
haemagglutination/haemagglutination-inhibition, lyophilised chick erythrocytes 1606
Herniaria plabra extract 8994
hexachlorohene + povidone-iodine + ethanol, bronchofilterscope disinfection 5807
interferon 4674
interferon induction 5578
isolation systems 10634
3-oxo-pregna-4,17(20)-dien-20-carboxylic acid 9441
plant extract 1240
pyrimidine derivatives 523
Rhodiodendron aureum extract 8994
ritavirin 4674
ribavirin triphosphate 9000
selenosemicarbazone derivatives 7344
soluble antigen, complement fixation 4008
thiosemicarbazone derivatives 7344
thiotea 5571
- Influenza virus vaccine,**
658 659 660 661 662 663 1448 2276 2281 2282 2283 2284 3084 3819 3820 3821 3822 3823 3825 3826 3924 4020 5769 6663 10416 10417 10418
polymethylmethacrylate adjuvant 4833
- Infrared radiation,**
pharmaceutical glassware sterilisation 6534
- Infusion solution,**
quality control, bacterial endotoxin, Limulus test 1817
- Infusion therapy,**
2221
- Inhibition,**
Helminthosporium apatarnae cellulase 7614
- Ink disease,**
Drechslera iridis, *Iris xiphioides* 6272
- Inoculation device,**
legume, nitrogen-fixing bacteria 8025
- Inoculation technique,**
Erwinia stewartii, corn 9784
- Inoculator,**
multiple syringe, agar plates 7533
- Inocybe olivaceofulvus,**
Eucalyptus regnans 7231
- Inonotus,**
caffeic acid 5149
- Inonotus (Contd),**
dehydrodicaffeic acid delactone 5149
- Inonotus radiatus,**
exo-peroxidase 6909
- Inonotus tamaricis,**
Tamarix 9994
- Inosine,**
Bacillus subtilis 1689
- Inositol,**
fermentation, *Klebsiella*, medium 4949
selective medium, *Klebsiella pneumoniae* 3977
6275
selective medium, *Serratia liquefaciens* 3977
8275
selective medium, *Serratia marcescens* 3977
8275
- Inositol fermentation,**
Klebsiella 7564
- Inositol hexaphosphate,**
Cryptococcus phosphatase, soil 10052
- Insect,**
cell culture, amphotericin B/amphotericin B methyl ester 10325
- Insect feed,**
fungicide 6117
- Insecticide,**
aldrin, degradation, soil bacteria, exo-diethyl 10074
antibiotic E-41 625
aphid, potato leaf roll virus, potato 1097
Autographa californica nuclear polyhedrosis virus, fall armyworm cell culture 4010
Bacillus 9487
Bacillus lentimorbus 87
Bacillus popilliae 87 9486
Bacillus thuringiensis 5157 8434 9486 9487 9489
Bacillus thuringiensis, Colorado potato beetle 4150
Bacillus thuringiensis delta-endotoxin 2652 3441 8578
Bacillus thuringiensis, *Galleria mellonella*, becomb 3442
Bacillus thuringiensis, Indian meal moth 2541
Bacillus thuringiensis parasporal crystal 7079
Bacillus thuringiensis parasporal crystal, assay, tobacco hornworm 7080
Reauveria bassiana, conidia sedimentation 5158
Bemisia tabaci, chilli leaf curl virus, chilli 7964
carbofuran, *Chaetocnema pulicaria*, *Erwinia stewartii*, corn 8783
carbofuran, degradation, soil fungi 10076
carbofuran, degradation, soil microorganisms 10075
carbofuran, estuarine water bacteria 4885
carbofuran, soil microorganisms 454
cartap, Nephrotettix cincticeps, rice dwarf disease virus, rice 7962
Cordyceps militaris, culture 6965
degradation, soil microorganisms 4598
destruxins, *Metarrhizium anisopliae* 5896
dichlorvos, aflatoxin, *Aspergillus* parasiticus 6131
dimethoate, *Diaphorina citri*, citrus greening, mycoplasma-like organism, sweet orange 5355
dyfonate, soil microorganisms 454
encapsulated nuclear polyhedrosis virus 6964
Erwinia, *Cydia pomonella* 891
Erwinia, *Fortheimeria dispar* 891
estuarine water bacteria 4884
fusaric acid 9713
Fusarium graminearum, zearalenone 2636
granulosis virus, diamondback moth 9488
hexachlorocyclohexane, degradation, *Clostridium sphenoides* 8456

Subject index

Insecticide (Contd),

kelthane, microbial degradation 8458
 lindane, degradation, soil microorganisms 10077
 maize chlorotic dwarf virus, corn 364
 maize dwarf mosaic virus, corn 364
 malaoxon, microbial degradation, soil 4599
 malathion, degradation, salt-marsh bacteria 6413
 methoxychlor, microbial degradation 8458
 N-methylcarbamate, N-nitroso derivatives, mutagenicity assay, *Escherichia coli*/*Escherichia subtilis* 3965
 microbial 7592 9486 9487
 microbial, biological control 10645
 microbial degradation, food 1758
 microbial film, mosquito 86
 milk/milk product microbiology 1725
 mirex, estuarine bacteria 723
 mushroom 8517
 mycorrhizal fungi 8917
 naled, *Fusarium graminearum*, zearalenone 2637
 nitrogen fixation, *Rhizobium* + broad bean 6443
 Nomuraea rileyi spore collection device 3201
 nuclear polyhedrosis virus 9487
 Nuvocon, soil ammonification/nitrification 2895
 organophosphate, microbial hydrolysis 113
 parathion, degradation, *Pseudomonas aeruginosa* 114
 photodieldrin, degradation, *Trichoderma viride*, soil 2896
 Phytophthora infestans, potato 4501
 piericidin A, *Streptomyces*, structure 9490
Pseudomonas, *Porthetria dispar* 591
 resmethrin, *Erysiphe cichoracearum*, cucumber 4500
 resmethrin, *Erysiphe cichoracearum*, Zinnia 4500
 resmethrin, *Erysiphe lagerstroemiae*, crapemyrtle 4500
 resmethrin, *Erysiphe polygoni*, cowpea 4500
 resmethrin, *Sphaerotheca humuli*, Kalanchoe blossfeldiana 4500
 resmethrin, *Sphaerotheca pannosa*, rose 4500
 rice rhizosphere microorganisms 8916
 SD 8280, soil, degradation 455
 Serratia marcescens protease, *Galleria mellonella* 6917
 soil, *Fusarium solani*, bean 10073
 soil microorganisms 4598
 Spodoptera litura nuclear polyhedrosis virus 890
 sugarbeet yellows virus, sugarbeet 365
 Supracids, soil ammonification/nitrification 2895
 thuricide, thuringiensin A, C-mitotic agent 2653
 viral, insect cell culture 4009
 whitefly, tomato leaf curl virus, tomato 1996
 intensive care unit,
 air sterilisation 3733
 antibacterial agent, copper 2347
 disinfection 3916
 hygiene 4895
Pseudomonas, hygiene 9233
 Interferon,
 517 5579 8083
 + adenine arabinoside/hypoxanthine arabinoside/adenine arabinoside 5-monophosphate, antiviral agent 5584
 + 9-beta-D-arabinofuranosyladenine, herpes simplex virus 4678
 actinomycin antibiotic 70591 1389
 adsorption chromatography, controlled pore glass 4677

Interferon (Contd),

2-amino-5-bromo-6-methyl-4-pyrimidinol/tilorone/polyinosinic acid-polycytidylic acid 8999
 animal cell culture, multisurface glass roller bottle 6802
 antiviral agent 519 4676 5560 6518 8083
 antiviral agent, fungal RNA 9451
Aspergillus foetidus virus 7337
Aspergillus niger virus 7337
 assay 6517
 BL-3849A, antiviral agent 2124
 cell culture 545
 cytomegalovirus 7339
 human MG-63 cell culture 10179
 influenza virus 4674
 influenza virus induction 5578
 lyophilisation preservation 9017
 phenylenedimethylene diamines 10181
 poly(7-deazainosinic acid)-poly(5-bromocytidylic acid) 5583
 poly(7-deazainosinic acid)-polycytidylic acid 5583
 polycytidylic acid-poly(5-bromocytidylic acid) 5583
 polyquandilic inosinic acid-polycytidylic acid 5582
 polyinosinic acid-polycytidylic acid 5583
 polyinosinic acid-polycytidylic acid + antibiotics 10180
 polyribonucleoside:polyribocytidylic acid 520
 purification 7338
 pyrazolocholine derivative BL-20803 5581
 RNA, antiviral agent 7340
 RNA complexes, antiviral agent 8084
 stabilisation 10181
 statolon, *Penicillium stoloniferum*, antiviral agent 518
 tissue culture 789
 viral RNA 3334
 Interfruitlet corking,
Penicillium funiculosum, pineapple 5383
 Interval plating technique,
 distilled water quality 6755
 Intravascular inoculation,
 chicken embryo, syringe-stabilizer unit 1604
 Intravenous fluid,
 bacterial endotoxin, *Limulus amoebocyte* lysate test 8576
 Intravenous infusion,
 bottle plug, microorganisms/sterilisation 5806
 Intravenous solution,
 antibiotics, quality control 6542
 Intravital pulse photography,
 dark field, microorganisms 5825
 Invertase,
 Candida utilis, immobilisation, porous cellulose beads 6899
 Cephalosporium sacchari, sugarcane 4347
 immobilisation 4057
 immobilisation, microorganisms 2
 immobilised *Saccharomyces pastorianus* 3289
 microbial, immobilisation,
 photo-crosslinkable resin oligomer 5957
 microbial, immobilised 3248
 microbial, soil, lead 6409
Saccharomyces carlsbergensis 850 851
Saccharomyces cerevisiae, immobilisation 826
 yeast 5008
 Iodinated alcohol,
 bactericide 6737
 Iodination,
 chloramine T, *Escherichia coli* outer membrane lipoprotein labelling 8274
 chloramine T, radioactive labelling, viruses 9300
 chloramine-T, *Staphylococcus aureus* enterotoxin B 7096

Subject index

Iodine,

- antibacterial agent, dental plaque 10504
- disinfectant, antibacterial agent/antifungal agent 8253
- iodophor teat dip, milk 8476
- iodophor udder wash/teat dip, milk 8475
- seafood disinfection/sterilisation 967
- swimming pool water disinfection 10480
- water disinfection 10480

Iodine-125,

- amikacin radioimmunoassay 5715

Iodine-125-lactoperoxidase,

- Bordetella pertussis* protein envelope radiolabelling 4943

2-Iodine benzoic acid anilide,

- fungicide, plant protection 1109

Iodine complex,

- + thiabendazole, fungicide, plant protection 5432

Iodine disinfectant,

- poultry house, Marek's disease virus 10433
- virucide 1241

Iodine staining,

- plant leaves, mildew 8594

5-Iodo-2-deoxyuridine,

- antiviral agent, persistent infection cell culture test 3711

Iodo compound,

- antibacterial agent 2110

Iodoacetone,

- bacteriostat, beet sugar 2616

2-Iodobenzanilide,

- Cronartium fusiforme*, slash pine 2041
- fungicide, plant protection 2797 3580
- Melampsora lini*, flax 8801
- Uromyces appendiculatus*, bean 3580

Iodochlorhydroxyquin,

- veterinary topical product, antibacterial agent/antifungal agent 2970

Iodophenyl hydrazide,

- glycollic acid, derivatives, *Mycobacterium tuberculosis* 8971

Iodophor,

- antibacterial agent 6738
- cosmetic preservation 4698
- degradable, germicide, udder hygiene 3921
- disinfectant testing 726
- germicide, food industry 6742
- hand disinfection, hospital intensive care unit, *Pseudomonas* 9233
- milking machine sanitation 3924
- sugarbeet surface disinfection 744
- teat dip, cattle mastitis 3922
- teat dip, iodine, milk 8476
- udder wash/teat dip, iodine, milk 8475

Iodophor disinfectant,

- viricide 4673

Iodopolymer,

- antibacterial agent/antifungal agent 1258 1259

5-Iodouracil,

- phage T4 5590

Ion exchange resin,

- dental caries 8262
- microbial amino acid adsorption 7600
- streptomycin 609

Ionization,

- air, bacteria 7463

Ionization constant,

- cephalosporin zwitterion 2191

Ionizing radiation,

- Salmonella enteritidis*, composted sewage sludge 7483

Ionophore A23187,

- assay, *Staphylococcus aureus* 8062

Ipomoea aquatica,

- abaca mosaic virus 5293

Ipomoea batatas,

- Ceratocystis fimbriata* 7177
- Erwinia* 8735
- Erwinia chrysanthemi* 7176
- feathery mottle virus 4423
- fungal lung-toxic furans 7827
- Fusarium oxysporum* 2760
- Fusarium oxysporum*, benomyl/thiabendazole 6373
- post-harvest decay, *Lasioglyphia theobromae*, cellulolytic/pectic enzymes 353

Ipomoea sepiaria,

- Alternaria*/Pleospora infectoria 1909

Ipomoea tricolor,

- + *Rhizobium*, nitrogen fixation 10063

Iprnidazole,

- animal feed, *Sphaerophorus necrophorus* 1773

Iris,

- Iris fulva* mosaic virus 7918
- Pseudomonas marginata* 2744
- Sclerotium rolfsii*, methyl bromide/pentachloronitrobenzene/methyl bromide + pentachloronitrobenzene 9967
- Xanthomonas tardicrescens* 8700

Iris brevicaulis x Iris fulva,

- Iris fulva* mosaic virus 7918

Iris fulva mosaic virus,

- Iris* 7918

Iris fulva x Iris brevicaulis,

- Iris fulva* mosaic virus 7918

Iris germanica,

- Xanthomonas tardicrescens* 8700

Iris tectorum,

- Xanthomonas tardicrescens* 8700

Iris xiphium,

- Drechslera iridis* 6272

Iron,

- + hydrogen peroxide, fungi, wood cellulose degradation 6402
- ferric, reduction, *Sulfolobus acidocaldarius* 2901
- ferric, reduction, *Thiobacillus ferrooxidans* 2901
- ferric, reduction, *Thiobacillus thiooxidans* 2901
- microorganisms 5509
- oxidation, *Bacillus megaterium* 4613
- oxidation, *Escherichia coli* 4613
- oxidation, *Salmonella typhimurium* 4613
- oxidation, *Serratia marcescens* 4613
- oxidation, *Thiobacillus* 5512
- oxidation, *Thiobacillus ferrooxidans*, batch/continuous culture 8931
- oxidation, *Thiobacillus ferrooxidans*, uranium leaching 8039
- pyritization, *Desulfovibrio desulfuricans*, soil 6456
- Thiobacillus ferrooxidans* 5509
- tolerance, *Penicillium ochro-chloron* 8930

Iron-binding compound,

- 2,3-dioxybenzoic acid/2,3-deoxybenzoyl serine, *Klebsiella aerogenes* 882

Iron-chlorin protein,

- Aspergillus niger* 4052

Iron dithiocarbamate complex,

- antifungal agent 3700

Iron protein,

- Rhodospirillum rubrum* nitrogenase 3245

Iron sulphate,

- jarosite, soil, *Thiobacillus ferrooxidans*, mackinawite, *Desulfovibrio desulfuricans* 2088

Iron sulphide,

- mackinawite, *Desulfovibrio desulfuricans*, jarosite, *Thiobacillus ferrooxidans*, soil 2088

Iron-sulphur protein,

- Desulfovibrio gigas* 2442
- Pseudomonas* 7
- Pseudomonas ovalis* 1630

Subject index

- Iron superoxide dismutase,**
Bacillus megaterium 5958
- Irradiated starch,**
Escherichia coli 10140
- Irradiated starch extract,**
Escherichia coli 5546
- Irradiation,**
 see also Radiation
 animal feed sterilisation 206
 chicken carcass, *Escherichia coli* 9674
Clostridium botulinum 212
 fast neutron, *Streptomyces aureofaciens*,
moenomycin 9027
 fast neutron, *Streptomyces ghanaensis*,
 demethylchlortetracycline 9027
 fast neutron, *Streptomyces lincolnensis*,
 lincomycin 9027
 gamma, *Aspergillus flavus*, food preservation
 213 214
 methicillin sterilisation 4769
 microwave, *Nicotiana tabacum*, tobacco seed
 treatment 9990
 sewage sludge 3863
 sewage sludge disinfection 9197
 sterilisation 1276
 ultraviolet, air disinfection 9229
 ultraviolet, *Escherichia coli*,
 continuous-flow system 7559
 ultraviolet, fish hatchery water disinfection
 1503
 ultraviolet, *Penicillium nigricans*,
 N-nitroso-N-methylbiuret 1377
 ultraviolet, toothbrush steriliser 1281
 ultraviolet, water 8237
 ultraviolet, water disinfection 8238
 vacuum-packaged trout, *Clostridium botulinum*
 toxin 7851
- gamma-Irradiation,**
 + heat, sterilisation 9012
 + heat treatment, poliovirus, sewage sludge
 9302
Aspergillus flavus, food preservation,
 aflatoxin 6121
Bacillus cereus, food preservation 8527
 barbiturate sterilisation 5601
 beverage 3412
 carrot, post-harvest decay 1966
 chicken carcass, *Salmonella* 4238
Clostridium botulinum, food radappertization
 9661
 cod preservation 6128
 cosmetic preservation, packaging 5611
 food, aflatoxin 3432
 food preservation 5249 6811
 food sterilisation, bacteria 9662
 packaged kamaboko preservation 7807
Penicillium expansum, patulin 3436
Penicillium patulum, patulin 3436
 potato, microbial post-harvest decay 8757
 potato, potato virus X 1075
 preservation, Indian mackerel 4244 4245
 preservation, white pomfret 4244 4245
 shrimp preservation 6128
 starch, *Clostridium* 7024
 sterilisation 9011
 sterilisation, medical product,
 microorganisms 2156
 strawberry, post-harvest decay 1966
 vacuum-packaged trout, microorganisms 5258
- Irrigation,**
 dairy waste treatment 679
 sewage lagoon effluent, reed canarygrass,
 coliforms 4607
 soil microorganisms 4603
 soil nitrification 4603
 soil, sewage treatment 4859
 soil, waste effluent 9189
 soil, wastewater, bacteria 3874
- Irrigation(Contd),**
 spray, dairy effluent disposal 3873
 spray, sewage sludge/effluent, vegetable,
 viruses 5784
 spray, soil/vegetables, sewage
 effluent/sludge, *Mycobacterium bovis* BCG
 9205
 sprinkler, fungicide, *Alternaria solani*,
 potato 7970
- Irrigation system,**
 drip, sulphur bacteria 716
- Irrigation water,**
Phytophthora parasitica, Citrus 1902
- Isachne dispar,**
Balansia claviceps 2686
- Isariopsis griseola,**
 bean 1842
 plant disease 2656
- Isariopsis indica,**
Zizyphus mauritania 8701
- Isatin-3-isothiosemicarbazone,**
 derivatives, antiviral agent 8093
- Isatin-3-thiocarbonylhydrazones,**
 derivatives, antiviral agent 8093
- Isatin beta-thiosemicarbazones,**
 antiviral agent, murine sarcoma virus/murine
 leukaemia virus 2968
 derivatives, *Vaccinia virus* 3717
- Ischaemum pilosum,**
Sorghum sorghi, sorghum sugary disease
 8649
- Isoamyl acetate,**
Cladosporium cladosporioides 7686 9477 9478
- Isoamyl alcohol,**
Cladosporium cladosporioides 7686
- Isoamylase,**
Arthrobacter 9404
Flavobacterium 9404 9405
 immobilization, microorganisms 2
 microbial 9501
Micrococcus 9404
- Isobutanol,**
 wine yeasts, alcohol dehydrogenase 3356
 yeast, alpha-keto acid decarboxylase, alcohol
 dehydrogenase 6017
- 3-Isobutyl-6-(3-guanidinopropyl)-2(1H)pyrazinone,**
Streptomyces toxytricina 5145
- Isobutyrate,**
 ammonium/potassium, antifungal
 agent/antibacterial agent 1257
- Isocaproic acid,**
 silage 7044
- Isochanoclavine,**
Penicillium concavo-rugulosum 5125
- Isocitrate,**
Enterobacter liquefaciens, xylitol 2540
- Isocitrate dehydrogenase,**
Bacillus stearothermophilus 6898
 NAD-linked, *Candida albicans* 5914
 NAD-linked, *Candida tropicalis* 9406
 NADP+-dependent, *Escherichia coli* 8367
 NADP+-dependent, *Rhizobium meliloti* 5073
 NADP-linked, *Candida albicans* 5914
 NADP-linked, *Candida tropicalis* 9406
 NADP+-specific, *Escherichia coli*, affinity
 chromatography 1655
- Isocitrate lyase,**
Candida albicans 5914 9407
Candida lipolytica 3286
- Isocitric acid,**
Candida lipolytica 5021
- Isocyano-epoxide,**
Trichoderma, structure 3079
- Isohydroacetic acid,**
 anilides, fungicide, plant protection 2797
- Isoelectric focusing,**
 bacterial beta-lactamase 8368
 microbial milk-clotting enzymes 9417
 polyacrylamide gel, *Mycoplasma* proteins 3211

Subject index

- Isoelectrofocusing,**
 - rabies virus glycoprotein, vaccine 2278
- Isoflavanone,**
 - Helminthosporium carbonum, pigeon pea 3566
- Isoflavone,**
 - Actinomyces roseolus 696C 6961
 - Helminthosporium carbonum, pigeon pea 3566
 - red clover, Sclerotinia sclerotiorum/Eotrytis cinerea 1846
- Isoflavonoid,**
 - Helminthosporium carbonum, chickpea 6348
 - Helminthosporium carbonum, pigeon pea 3566
- Isofunigaclavine A,**
 - Penicillium roqueforti 6008
 - Penicillium roqueforti, blue cheese 926
- Isofunigaclavine B,**
 - Penicillium roqueforti, blue cheese 926
- Isolation chamber,**
 - anaerobic microorganisms 1543
- Isolation system,**
 - anaerobic organism 1557
- Isolator,**
 - hospital 3913 4894
 - intensive care unit 4895
 - plastic, hospital 3914 3915
- Isoleucine,**
 - Arthrobacter 3230
 - Bacillus subtilis 5895
 - Brevibacterium 3230
 - Mycobacterium 3230
 - Swiss stone pine rhizosphere microorganisms 7229
- L-Isoleucine,**
 - Bifidobacterium 8318
 - Brevibacterium flavum 815
 - Corynebacterium glutamicum 8319
- Isoleucyl-tRNA synthetase,**
 - Escherichia coli, affinity chromatography, blue dextran-Sepharose 5074
- Isolevorin,**
 - optical rotation dispersion 9140
- Isometric labile ringspot virus,**
 - sweet cherry 300
- Isoniazid,**
 - Mycobacterium farcinicum 4648
 - Mycobacterium phlei 4648 10136
 - Mycobacterium smegmatis 4648
 - Mycobacterium tuberculosis 4648 4649 10137
 - Mycobacterium tuberculosis, sensitivity testing, radiometry 9041
 - resistance, Mycobacterium tuberculosis 6482
- Isoniazid-copper complex,**
 - antiviral agent, Mycobacterium tuberculosis 7343
- Isoptanol,**
 - wine yeasts, alcohol dehydrogenase 3358
- Isophthalic acid,**
 - soil bacteria 10049
- Isophthalonitrile,**
 - fungicide 2951
- Isopogon ceratophyllus,**
 - Phytophthora cinnamomi 8596 8597
- Isopropanol,**
 - antibacterial agent 6738
 - disinfectant, bacterial resistance 1192
 - Mycobacterium, alpha-ketoglutaric acid 807
 - Mycobacterium, succinic acid 807
 - vaccinia virus 6736
 - variola virus 1242
 - yeast ergosterol 6C
- Isoquinoline,**
 - indolizino-, derivatives, antimicrobial agent 273C
- Isothiazole,**
 - derivatives, bactericide/fungicide 1268
- Isothiazolidin-3-one,**
 - derivatives, bactericide/fungicide, plant protection 8833
- Isothiazolin-3-one,**
 - derivatives, bacteriostat/fungistat 534
- Isothiazolopyridinone,**
 - derivatives, bactericide/fungicide 2975
 - derivatives, fungicide, plant protection 2975
- Isothiocyanate,**
 - derivatives, antibacterial agent/antifungal agent 3722
- Isotope,**
 - sulphur, fractionation, Ectothiorhodospira shaposhnikovii 2904
- Isovaleric acid,**
 - silage 7044
- Isoxazole,**
 - 3-methyl-5-aryl-4-(substituted sulphonamidobenzeneazo)-, antibacterial agent 5554
- Isoxazolium,**
 - derivatives, polarography 8975
- Iturin A,**
 - bacillomycin B, antifungal agent 5743
 - bacillomycin R, antifungal agent 5743
 - eumycin, antifungal agent 5743
- Ivy,**
 - arabis mosaic virus 250
 - Phytophthora palmivora, pyroxychlor 2745
- Jamun tree,**
 - Berkleasium conglobatum 4538
 - Sporidesmium vagum 4538
- Japanese B encephalitis virus,**
 - 3-deazauridine 6521
 - 2-deoxy-D-glucose 6521
 - 2-deoxy-D-glucose + 3-deazauridine 6521
- Japanese encephalitis virus,**
 - haemagglutination/haemagglutination-inhibition, lyophilised chick erythrocytes 1606
 - polyethylene glycol precipitation 5869
 - sucrose dialysis 5869
- Japanese quail,**
 - feed, zearalenone 1769
- Jarosite,**
 - soil, Thiobacillus ferrooxidans, mackinawite, Desulfovibrio desulfuricans 2088
- Jasmine,**
 - arabis mosaic virus 250
- Jasminum lanceolaria,**
 - Chaetonia butleri 997
- Jasminum officinale,**
 - arabis mosaic virus 250
- Jasminum pubescens,**
 - Chaetonia butleri 997
- Jembec system,**
 - Neisseria gonorrhoeae 5848
- Jerusalem artichoke,**
 - Cercospora bidentis 6252
- Jerusalem cherry,**
 - Oidiopsis/Leveillula taurica 5299
- Jet fuel,**
 - Cladosporium resinae 10104
- Job's tears,**
 - virus disease 1869
- Johnsongrass,**
 - maize chlorotic dwarf virus 8631
 - maize chlorotic dwarf virus, corn 5320
 - maize dwarf mosaic virus 8631
 - maize dwarf mosaic virus, corn 5320
 - Periconia circinata 4345
 - Pseudomonas 4316
 - Ramulispora sorghi 3485
- Josamycin,**
 - anaerobic bacteria 2994
 - antibacterial agent 640 2110
- Juglans sieboldiana,**
 - walnut bunch, mycoplasma-like organism 3622
- Juglans cinerea,**
 - walnut bunch, mycoplasma-like organism 3622

Subject index

- Juglans mandshurica**,
walnut bunch, mycoplasma-like organism 3622
- Juglans nigra**,
Cristulariella pyramidalis 2852 2853
Gnomonia leptostyla 2051
Gnomonia leptostyla, benomyl 10008
Gnomonia leptostyla, fungicide 10016
Microstroma juglandis 2051
walnut bunch, mycoplasma-like organism 3622
- Juglans regia**,
Erwinia rubrifaciens 8672
Microstroma juglandis, fungicide 5465
walnut bunch, mycoplasma-like organism 3622
Xanthomonas juglandis, antibacterial agent 2050
- Juglone**,
derivatives, fungicide 5430
- Juice**,
see also Beverage
apple, Byssoschlamys nivea, heat resistance 2618
apple, patulin, sulphur dioxide 7829
apple, patulin, thin-layer chromatography 8572 9717
apple, Pyssoschlamys fulva, heat resistance 2618
apple, yeast 1705
carrot, nitrite, nitrite-producing bacterium 7777
fruit, byssoschlamic acid 1808
fruit, Byssoschlamys nivea 6092
fruit, Byssoschlamys nivea spores, food preservative 3423
fruit, fermentation 9518
fruit, patulin 8571
fruit, preservation, sulphur dioxide 6811
fruit, shelf-life, microorganisms 9607
fruit, wine 9517
garlic, antifungal agent 8987
grape, antiviral agent 4672
grape, Byssoschlamys nivea 6092
grape, Byssoschlamys nivea spores, food preservative 3423
grape, continuous fermentation, yeast, slant-tube fermentor 6976
grape, patulin 7830
grape, Pyssoschlamys nivea, food preservative 4252
grapefruit, Lactobacillus brevis 6091
orange, assay, Lactobacillus plantarum 5238
orange, frozen concentrated, microorganisms, radiometry 9608
orange, Lactobacillus brevis 6091
orange, microflora, heat resistance 222
orange, plate loop count 194
orange, protein hydrolysate, bacterial protease 5971
plant, protein, microbial fermentation/coagulation 7026
tomato, Bacillus coagulans, preservation 970
tomato, Clostridium botulinum 9609
tomato, Clostridium botulinum, heat resistance 9687
tomato, mouldy, Clostridium botulinum/botulinum toxin 3446
- Jujub**,
Cladosporium oxysporum 1000
Isariopsis indica 8701
witches' broom disease, tetracycline 315
- Juncaceae**,
vesicular-arbuscular mycorrhiza 4567
- Juncus balticus**,
nitrogen fixation 6436
- Junin virus**,
bis-benzimidazole derivatives 7341
2-deoxy-D-glucose 7341
glucosamine 7341
- Junin virus vaccine**,
2279
- Juniper**,
Coniothyrium fuckelii 8701
Gymnosporangium confusum 819
Gymnosporangium gracile 9819
Gymnosporangium sabiniae 9819
Phomopsis juniperovora, plant protection 1127
Rocky Mountain, Armillariella mellea 5450
Rocky Mountain, Cercospora sequoiae 6385
- Juniperus**,
Gymnosporangium confusum 9119
Gymnosporangium gracile 9814
Gymnosporangium sabiniae 9819
- Juniperus communis**,
Coniothyrium fuckelii 8702
Phomopsis juniperovora, plant protection 1127
- Juniperus scopulorum**,
Armillariella mellea 5450
- Juniperus virginiana**,
Cercospora sequoiae 6385
- Junket**,
7741
- Jute**,
Colletotrichum corchori 6273
Colletotrichum gloeosporioides, biological control, Aspergillus versicolor versicollin 8880
Macrophomina phaseolina 316
seed, fungi, seed dressing fungicide 2825
Thanatephorus cucumeris 8703
- Juvenimicins**,
Micromonospora chalcea, antibacterial agent 7433
Micromonospora chalcea, structure 7434
- Kabatiella caulivora**,
ribonuclease 1674
subterranean clover 6185
- Kaincope disease**,
coconut 10648
coconut palm 1922 2735 2821 6260
coconut palm, tetracyclines
mycoplasma-like organism, coconut palm 1054
- Kalafungin**,
structure 5744
- Kalanchoe blossfeldiana**,
Oidium kalanchoeae 304
Sphaerotheca humuli, resmethrin 4500
- Kalanchoe pinnata**,
Alternaria alternata 2661
- Kali iodide**,
Pestalotia psidii, guava post-harvest decay 9915
- Kamaboko**,
Candida pseudointermedia 6088
Clostridium botulinum toxin 1814
packaged, gamma-irradiation preservation 7807
- Kanamugura**,
mulberry dwarf disease mycoplasma-like organism 8699
- Kanamycin**,
1-N-isoseryl-, antibacterial agent 3785
+ ampicillin, Streptococcus group D 5634
+ ampicillin, Streptococcus viridans 5634
+ carbenicillin, Acinetobacter calcoaceticus 9051
+ cephalothin, Klebsiella 4723
+ chloramphenicol, Klebsiella 4723
+ penicillin, Streptococcus viridans 5634
+ vancomycin, Streptococcus group D 5634
+ vancomycin, Streptococcus viridans 5634

Subject index

Kanamycin(Contd),

antibacterial agent 3755 7384 8130 10241 10260
antibacterial agent, antibiotic sensitivity testing 9035
antibiotic mixture, microbiological assay 2990
assay, *Staphylococcus aminoglycoside*
4-adenylyltransferase 2183
bile system microflora 2995
chicken feed 9627 9428
Enterobacter aerogenes 1214
enterobacteria 9040
Escherichia coli 1214 1304
Escherichia coli, electron microscopy 4722
Haemophilus parainfluenzae 8115
hydroxypropyl methylcellulose artificial tear solution 4712
Klebsiella 4723
Klebsiella pneumoniae 1214
Listeria monocytogenes 5629
Mycobacterium farcinicum 4648
Mycobacterium phlei 4648
Mycobacterium smegmatis 4648
Mycobacterium tuberculosis 4648
Neisseria gonorrhoeae 8118
polyanionic detergents 7389
Proteus 1304
Proteus mirabilis 1214
Pseudomonas aeruginosa 564 1214 1304 6550 6566
Pseudomonas pseudomallei 8117
resistance, coliform, R factor, sewage treatment 2305
resistance, coliforms, food 6029
resistance, *Escherichia coli* 6474 8050
resistance, *Escherichia coli*, food 6028
resistance, *Klebsiella* 6474
resistance, *Klebsiella pneumoniae*, R factor 8944
resistance, *Mycobacterium smegmatis* 6481
resistance, *Mycobacterium tuberculosis* 6482 7307
resistance, *Proteus rettgeri* 1201
resistance, *Pseudomonas aeruginosa*, + heavy metals resistance 7294
resistance, *Pseudomonas aeruginosa*, beta-lactamase 2102
resistance, *Salmonella* 7300 8948
resistance, *Salmonella typhi* 5529
resistance, *Staphylococcus aureus* 1207
resistance, *Staphylococcus epidermidis*, tobramycin adenylyltransferase 6491
resistance, *Streptococcus faecalis* 8950
resistance, *Vibrio cholerae* 2100
Salmonella 8949
sensitivity testing, *Bacteroides fragilis* 10553
sensitivity testing, Enterobacteriaceae 10259
Staphylococcus 1304
Staphylococcus anaerobiosus 9044
Staphylococcus aureus 1207 1214
Staphylococcus aureus L-form 3750
Streptococcus faecalis 1214
Streptococcus mutans 552
Streptomyces kanamyceticus 2171 2180 2181
vitamins/nicotinamide/p-aminobenzoic acid 2991
Yersinia enterocolitica 4730 6551
Yersinia pseudotuberculosis 4744

Kanamycin A,

1-[[(-)-gamma-amino-alpha-hydroxybutyryl]-, antibacterial agent 7413

Kanamycin acetyltransferase,

Streptomyces kanamyceticus, kanamycin 2181

Kanamycin B,

1-N-isoseryl-3,4-dideoxy-, antibacterial agent 3785
1-N-isoseryl-, antibacterial agent 3785

Kanamycin B(Contd),

3,4-dideoxy, *Pseudomonas aeruginosa* phagocytosis, rabbit polymorphonuclear leukocytes 2998
derivatives, antibacterial agent 6596

Kanendomycin,

antibacterial agent 7425

Kangkong,

abaca mosaic virus 5293

Kaolinite,

cadmium, antibacterial agent/antifungal agent 6455

Kapok tree,

Colletotrichum gloeosporioides 6274

Karelian pesty,

Bacillus cereus/Eacillus subtilis, sorbic acid/sorbate 8551

Karl Fischer method,

lyophilised vaccine residual moisture evaluation 656

Karnal bunt,

Neovossia indica, wheat, sporulation medium 3200

Kasugamycin,

9501
Escherichia coli, R factor 10374
guanidino derivatives, antibacterial agent 3808
phytopathogenic bacteria/fungi, plant protection 7222
Pyricularia oryzae, resistance 8966
seed treatment, *Pseudomonas phaseolicola*, bean 6379
Streptococcus mutans 552

Kasuri methi,

seed, fungi 1017

Kathan,

seed treatment, *Rhizoctonia solani*, cotton 8836

Kaur-16-en-19-oic acid,

transformation, *Cunninghamella blakesleeana* 3327

(-)-Kaurenal,

Fusarium moniliforme 7689

Kaurenolide,

3beta,7beta-dihydroxy-, hydroxylation, *Rhizopus arrhizus* 2509

KCN-test,

rapid, Enterobacteriaceae 3170

Kefir,

2569
microbiology, pesticide 1725
vitamin B, *Propionibacterium shermanii* 8487

Kellogg rapid test,

Neisseria gonorrhoeae 1573

Kelthane,

microbial degradation 8458

Kenima,

4163

Kennel cough vaccine,

dog 668

Kentucky bluegrass,

Cortium fuciforme 8641
Drechslera poae 8642
fungal diseases 8641
fungal oxysporum 8641
Helminthosporium 8641
Helminthosporium poae 8641
nitrogen fixation, nitrogenase 4597
snow mould 1872
snow mould fungi, fungicide 4485
Urocystis agropyri 6211
Ustilago striiformis 6211

Kepona,

estuarine bacteria 723

Keratinase,

Microsporium gypseum 6815

Kerf,

Douglas fir pole preservation 4553

Subject index

- Kernel smut,**
Neovossia horrida, rice, fungicide 9961
- Kerosene,**
fungicide, quaternary ammonium compound 2961
- Kestose,**
Phytophthora parasitica 5982
- 2-Keto-3-deoxy-6-phosphogluconic aldolase,**
Pseudomonas putida, azomethine-forming lysine residue, structure 3287
- 2-Keto-3-deoxyoctonate,**
Pseudomonas aeruginosa outer membrane 6821
- 3-Keto-5-aminohexanoate cleavage enzyme,**
Clostridium 7632
- alpha-Keto acid decarboxylase,**
yeast, fusel alcohols 6017
- 2-Keto-L-gulonic acid,**
Brevibacterium 2420
- 2-Keto-L-gulonic acid,**
Corynebacterium 809
Gluconobacter melanogenus, L-sorbose 3229
Klebsiella pneumoniae, L-sorbose 3229
Pseudomonas putida, L-sorbose 3229
Serratia marcescens, L-sorbose 3229
L-sorbose, Gluconobacter melanogenus enzymes 5024
- 2-Keto-L-gulonic acid reductase,**
Gluconobacter melanogenus, 2-keto-L-gulonic acid, L-idonic acid 3229
Pseudomonas putida, 2-keto-L-gulonic acid, L-idonic acid 3229
- beta-Ketoacyl decarboxylase,**
Penicillium roqueforti 1656
- beta-Ketoacyl synthetase,**
Saccharomyces cerevisiae fatty acid synthetase, assay 9408
- 2-Ketogluconate dehydrogenase,**
Acetobacter 845
- alpha-Ketoglutaric acid,**
Mycobacterium isopropanol 807
Saccharomyces carlsbergensis, microelements 8436
- Ketone,**
aryl-5-fluoro-2-methoxyphenyl-, fungicide 3710
bis-basic cyclic, derivatives, antiviral agent 8092
fluorinated derivatives, fungicide 2955
Fusarium nivale, wheat 9962
macrocyclic, paraffin oxidation, Torulopsis bombicola 2920
reduction, Saccharomyces cerevisiae, alpha-hydroxy carboxylic acid/beta-hydroxy carboxylic acid derivatives 5150
Saccharomyces cerevisiae 7690
Septoria nodorum, wheat 9962
- Ketosteroid,**
beta-sitosterol degradation, Nocardia 8401
- 3-Ketosucrase,**
Agrobacterium tumefaciens 5008
- Kezoosol-II,**
abattoir disinfectant 4897
- Kievitone,**
Aphanomyces euteiches 2000
bean, Fusarium solani, hydration 8786
Fusarium solani 2000
Rhizoctonia solani 2000
- Killer toxin,**
Saccharomyces cerevisiae 5279 5280
Saccharomyces sake 5279
Torulopsis glabrata 5280
- Kinamycin D,**
Streptomyces murayamaensis 641
- Kinatin,**
Alternaria solani, cellulase 3697
Alternaria tenuis, cellulase 3697
Scots pine, Suillus variegatus 6381
tobacco mosaic virus, tobacco 3534
tobacco ringspot virus, cowpea 8608
- Kininase,**
Tricholoma conglobatum 4094
- Kinnow,**
citrus canker 1043
- Kirby-Bauer method,**
antibiotic sensitivity testing, Pseudomonas aeruginosa/Enterobacteriaceae 4720
- Kitasamycin,**
antibiotic SF-837 3061
- Kitasatoa griseophaeus,**
quinoline-2-methanol 5128
quinoline-2-methanol acetate 5128
- Kitazin,**
Alternaria cepulicola, onion 4492
Alternaria solani, potato 5418
Physoderma maydis, corn 8793
Rhizoctonia solani, cauliflower 1103
- Klebocin typing,**
Klebsiella 3978
- Klebsiella,**
6-(alpha-3-acyl-ureidoacetamido)-penicillanic acids 7410
alpha-ethyl-alpha-aminopropylpenicillin 1364
amikacin 2189 3758 4723 10260
amikacin + cefazolin 3736
amikacin/gentamicin/kanamycin/sisomicin/tobramycin 7384
aminoglycoside antibiotics 1319 3755
antibacterial agent 5752
antibiotic resistance 4634
antibiotics 4721 7368
antibiotics resistance 4632 6474
azlocillin 8155
bacteriocin typing 3978
bile-esculin agar 9272
biomass, methanol 9321
blood culture, antibiotic sensitivity testing 551
brewery, hygiene 8444
carbonamidoquinoxaline-di-N-oxide derivatives 1226
cefaclor/cephalexin 10271
cefamandole 3772
cefazafur 7401
cefazolin 7402
cefazolin + gentamicin 7382
cefazolin resistance 7402
cefazolin + sisomicin 7382
cefoxitin/cefuroxime/cephalothin 5656
cephalosporin derivative 1328
cephalosporin derivatives 1340 7394
cephalosporins 1324 2178 2194 2195
cephalothin 4723
cephalothin + amikacin 4723
cephalothin/cefamandole/cefoxitin 1325
cephalothin + gentamicin 4723
cephalothin + kanamycin 4723
chloramphenicol 4723
chloramphenicol + amikacin 4723
chloramphenicol + gentamicin 4723
chloramphenicol + kanamycin 4723
chlorhexidine 10152
cloxacillin + amoxycillin 149
dicloxacillin + ampicillin 8149
doxycycline 7313
drinking water 7497
drinking water, redwood storage tank 7498
flucloxacillin + amoxycillin 8149
food, antibiotic resistance 4633
garlic 10143
gentamicin 2189 3758 4723
gentamicin assay 10314
gentamicin resistance 5526
gentamicin resistance, tobramycin 6464
gentamicin/sisomicin/tobramycin 6562
gentamicin/tobramycin 4740
gentamicin/tobramycin/carbenicillin resistance, R factor 8052
gentamicins 9090
hospital intensive care unit 3916
inositol fermentation, medium 4949
kanamycin 4723

Subject index

Klebsiella(Contd),

beta-lactamase, Streptomyces beta-lactamase inhibitor 3347
 mercapto-quinoxaline derivatives 504
 mezlocillin 5672
 municipal water 7497
 netilmicin 5145 10260 10392
 netilmicin +
 carbenicillin/cefazolin/chloramphenicol/clin dmycin 1428
 netilmicin/gentamicin/amikacin 4741
 netilmicin/gentamicin/tobramycin/amikacin 5750
 netilmicin/gentamicin/tobramycin/sisomicin 5751
 oxolinic acid 528 5563
 PathoTec system 7540
 penicillanic acid derivatives 595
 penicillin derivatives 1358 6589 6590 7405 7406 7408 10295
 penicillins 2178 3777
 polysaccharide 2513
 prompt lactose-fermenting, test scheme 5838
 pullulanase 9432
 rapid KCN-test 3170
 resistance, doxycycline 7313
 resistance, tetracycline 7313
 rosamicin monoesters 5760
 sewage, antibiotic + inorganic metal resistance 2925
 sisomicin 2189 3758 4825 6651 6652 10406
 sisomicin + cefazolin 7381
 sisomicin/gentamicin 3757
 skin 4904
 sulphacycline 528
 sulphadiazine + antibiotics, resistance 8945
 sulphamethoxazole-trimethoprim 2941 7319
 terizidone 5555
 tests 1565
 tetracycline 7313
 ticarcillin/antibiotic BL-P1654/carbenicillin 605
 tobramycin 528 2189 3078 3758
 Tribrissen (sulphadiazine + Trimethoprim) 2939
 turkey faeces, oxytetracycline feed 7042
 uridoacetamido-penicillin derivatives 8161
 vitamin B12/5,6-dimethylbenzimidazolyl cobamide coenzyme, methanol 2917
 vitamin B12, methanol 9321
 water, dodecylbenzene sodium sulphonate 6723

Klebsiella aerobacter,

antibiotic 416884 6619

Klebsiella aerogenes,

see also Aerobacter aerogenes
 2-isopropoxynaphth-1-yl penicillin + cephaloridine/cephalothin 556 557
 agar droplet method 3165
 antibiotic B371 5706
 arylsulphatase 5922
 assay, Limulus lysate test 10551
 cephalosporins 3766
 chemostat/batch culture 4951
 chemostat culture, flow microcalorimeter 7562
 culture, thermogram, flow microcalorimetry 7563
 estuarine water/sediment, petroleum degradation, numerical taxonomy 10109
 formic acid 8317
 iron-binding compound, 2,3-dioxybenzoic acid/2,3-deoxybenzoyl serine 882
 beta-lactamase, clavulanic acid 8178
 marine, petroleum degradation 10111
 milking machine/milking plant 7727 7728
 oxazolidine derivatives 5553
 penicillins/cephalosporins resistance, beta-lactamase, R factor 10122
 pigment 882
 plant essential oil 5548

Klebsiella aerogenes(Contd),

povidone iodine 2935
 soil 4565
 Klebsiella cloacae,
 milking machine/milking plant 7727 7728
 Klebsiella edwardsii,
 gentamicin assay, ATP-firefly luminescence 10225
 tobramycin assay 6655
 tobramycin assay, ATP-firefly luminescence 10225
 Klebsiella marxianus,
 immobilisation, calcium alginate gel 6819
 Klebsiella oxytoca,
 amikacin 7427
 MCRLUC numeric system 1567
 Klebsiella ozaenae,
 pullulanase 9432
 spices 1761
 tests 4946
 Klebsiella pneumoniae,
 3-chloro-2-oxazolidinones 7322
 3-chloro-tetrahydro-1,3-oxazines/oxazolidines 1267
 3-deoxybutirosin A 2253
 3-deoxydehydrostreptomycin 6594
 5-amino-5-deoxybutirosin 1409
 6beta-acylamino-6-alpha-alkoxy penicillins 2173
 7-(2-aminomethylphenylacetamido)-3-(1-carboxy methyltetrazol-5-ylthiomethyl)-3-cephem-4-carboxylic acid/cepham-4-carboxylic acid 7398
 7beta-acylamino-7-alpha-alkoxy cephalosporins 2173
 aesculin hydrolysis + inositol fermentation 7564
 amikacin 7427
 aminotriideoxybutirosin A 2254
 ampicillin, sensitivity test broth/urine 3009
 antibacterial agent/antibiotic 1214
 antibiotic 333-25 1367 1388
 antibiotic A-26771 1390
 antibiotic AV290 alkylated derivatives 1394
 antibiotic B-43 5705
 antibiotic BM 123 3058
 antibiotic C-52 1397 1398
 antibiotic G-418 1400
 antibiotic NRC-501 3060
 antibiotic-resistant, cefoxitin 5655
 antibiotic sensitivity testing 4718 4720
 antibiotic TA 6621
 antibiotic U-48266 4789
 antibiotic X-372A 1403
 antibiotic XK-90 5710
 antibiotics 2993 6557 6565
 azetidinone derivatives 3687
 Bacillus subtilis antibiotic 9028
 benzo-1,2,4-triazines 1225
 benzotriazine-1,4-dioxide derivatives 2091 2118
 alpha-bromo-p-methylacetophenone + 1,3-dichloroacetone oxime acetate, industrial water system 10470
 capsule, chemical fixation, electron microscopy 9273
 carbenicillin, sensitivity test broth/urine 3009
 cefactor 10272
 cefamanole, anaerobiosis 5547
 cefazolin, anaerobiosis 6547
 cefazolin, sensitivity test broth/urine 3009
 cefoxitin 3773
 ceftazole 5654
 cephacetrile +
 amikacin/gentamicin/sisomicin/tobramycin 6555
 cephalexin/cephradine/cefactor 6578
 cephalosporin antibiotic FR10612 2187

Subject index

***Klebsiella pneumoniae*(Contd),**

cephalosporin derivative 1329
cephalosporin derivative FR10024 5661
cephalosporin derivatives 570 1312 1313 1335
1339 1341 1342 1343 2198 2209 2211 3006
3017 3018 3019 3769 5665 8140 9070
cephalosporin R-sulphoxides 4736 5637
cephalosporin SQ 67,590 5662
cephalosporinase, carbenicillin 8156
cephalosporins 3016
cephalosporins/ampicillin 2177
cephalothin 5657 7376
cephalothin, anaerobiosis 6547
cephalothin-resistant,
cefoxitin/cephalosporin BL-5786 10275
cephalothin, sensitivity test broth/urine
3009
cepham derivatives 2200
cephamycin derivatives 6575
chelocardin anilino derivatives 3064 5726
copper, intensive care unit 2347
cycloalkyl-4-oxoquinoline-3-carboxylic acid
derivatives 2141
cyclodextrin glucanotransferase 5940
cysteine desulphhydrase, L-cysteine 6829
dairy product 1737
damavaricin 634
2-deoxystreptamine-aminoglycoside derivatives
6560
diacetyl reductase 9382
D-3,6-diaminohexanoic acid
2-(Carboxymethyl)-2-methylhydrazine 2151
disinfectant 6727
disinfectant resistance 1192
econazole 2974
formaldehyde 5523
fortimicin A 8181
furancarboxylic acid esters 2143
gentamicin 1-N acyl derivatives 5643
gentamicin aminocyclitol analogues 6599
gentamicin, anaerobiosis 6547
gentamicin + azlocillin 7383
gentamicin C1 derivatives 2225
gentamicin C1a derivatives 5685
gentamicin C2 derivatives 617
gentamicin + carbenicillin 7383
gentamicin + mezlocillin 7383
gentamicin resistance 6485 6486
gentamicin/sisomicin/tobramycin 5653 6564
1-4alpha-glucan phosphorylase 4089
hexachlorophene + povidone-iodine + ethanol,
bronchofiberscope disinfection 5807
hospital food 126
p-hydroxybenzoic acid ester silicon
derivatives 5551
inositol-containing selective medium 3977
iodopolymers 1258 1259
kanamycin B derivatives 6596
kanamycin derivatives 3785
kanendomycin 7425
kasugamycin guanidino derivatives 3808
2-keto-L-gulononic acid, L-sorbose 3229
beta-lactam antibiotics 6553
beta-lactamase, double disc method 3288
lake water 4883
laterosporamine 2261
lividomycin A derivatives 6641
lividomycin B derivatives 1422 6641
M-FC medium 4950
meat/hide 4210
mercury + antibiotics resistance, R factor
8944
methicillin 7376
miconazole 2974
MORLUC numeric system 1567
naphthylridine derivatives 2945
negamycin analogues 642
netilmicin 1429
netilmicin/gentamicin/tobramycin 10393

***Klebsiella pneumoniae*(Contd),**

netilmicin/gentamicin/tobramycin/amikacin
2185
netilmicin/gentamicin/tobramycin/amikacin/sis
omicin 2184
netilmicin/sisomicin 3815
nitrogen fixation 2413 9308
nitroimidazole-pyrimidine derivatives 4661
oxamicetin 3073
8-oxo-4-thia-1-azabicyclo[4.2.0]oct-2-ene-2-
carboxylic acid 8122
paper mill water system, nitrogen fixation
1493
penicillanic acid derivatives 606
penicillin derivatives 1312 1313 1350 3006
penicillin G 7376
penicillin R-sulphoxides 4736 5637
penicillin, sensitivity test broth/urine
3009
pullulanase 2502 9432
pyrano-indole derivatives 7349
pyrimidine derivatives 502
quinolizine-2-carboxylic acid derivatives
4694
quinolizine derivatives 8100
rancinamycin I/rancinamycin II/rancinamycin
III/rancinamycin IV 5759
resistance, cefoxitin 1202
resistance, cephalothin 1202
resistance, formaldehyde 5523
selective medium, inositol 8275
silver nitrate 2937
sisomicin 1-N acyl derivatives 5643
sisomicin + azlocillin 7383
sisomicin + carbenicillin 7383
sisomicin/gentamicin 7387
sisomicin + mezlocillin 7383
L-sorbose, L-sorbose 3229
spices 1741
streptomycin A 5763
substituted sulphonylaceto cephalosporins
2204 2205 2206
sulphanilamide-metal complexes 10148
tetrahydro-cyclopropa(b)naphthalenes 4692
Thalictrum rugosum alkaloid 2144
thienamycin 651
thienopyridine-carboxylic acid derivatives
503 2944
ticarcillin, sensitivity test broth/urine
3009
tobramycin 4827 7425
tobramycin, anaerobiosis 6547
transport system 5837
beta-ursolic acid 6532
verdamicin 1 562
verdamicin 1-N acyl derivatives 5643
vitamin D3 10187
***Klebsiella rhinoscleromatis*,**
pullulanase 9432
***Klebsiellae*,**
aesculin hydrolysis + inositol fermentation
7564
***Kloeckera*,**
acetoin 3344
S-adenosylmethionine/methylthioadenosine 871
1687
animal feed/food, methanol 820
diacetyl 3344
methanol 3235
urea hydrolysis, Berthelot colour reaction
6795
wine 8448
***Kloeckera africana*,**
5-nitrofurylacrylic acid, wine 3359
***Kloeckera brevis*,**
thiamine assay, beer, yeast 6016
***Kluyveromyces*,**
hexadecane degradation, haptachlor 4624
mannan 3215

Subject index

- Kluyveromyces (Contd),**
 slime, fibreboard industry 10471
- Kluyveromyces cicerisporus,**
 wood chips 10023
- Kluyveromyces fragilis,**
 cheese whey fermentation, galactose 8489
 food 7720
 food, waste whey 6034
 beta-galactosidase, low-lactose milk/milk product 7738
 beta-galactosidase, milk lactose 8486
 histone-like protein 2438
 protein, food 1718
 Swiss cheese whey culture medium 4004
 whey fermentation, animal feed 7779
- Kluyveromyces lactis,**
 immobilised, beta-galactosidase 4087
 Saint-Nectaire cheese 161
- Kocide 101,**
 Phytophthora palmivora, cacao 6359
- Kocide 404S,**
 Erysiphe betae, sugarbeet 7205
- Kodan,**
 bactericide 8245
 skin disinfectant, antimicrobial agent 10494
- Kodo-cytochalasin-1,**
 structure 6143
- Kohlraubi,**
 Olpidium brassicae 6255
- Koji,**
 4190
 glucosamine assay 9605
- Koji-enzyme,**
 sake, ethyl-alpha-D-glucoside 7702
- Kojic acid,**
 analogues, bacteriostat 1223
 Aspergillus flavus, aflatoxins 5265
 Aspergillus parasiticus 810
 food 8467
- Kokandomycin,**
 Streptovorticillium albireticuli, antifungal agent 9138
- Koleroga disease,**
 Phytophthora arecae, arecanut 3506
- Kormogrisin,**
 4711
- Kovacs' reagent,**
 indole, quality control 4945
- Kraft lignin,**
 degradation, water microorganisms 6982
- Kretzschmaria clavus,**
 Macadamia integrifolia 5358
- Kuntan smoke,**
 fungicide 8988
- Kuo-pao-tan,**
 Phytophthora palmivora, papaya 8666
- L1210 murine leukaemia,**
 chlorocarcin A/chlorocarcin B/chlorocarcin C 2263 2264
- L-1210 leukaemia,**
 carbamoyl mycophenolic acid ethylester 874
 mycophenolic acid derivatives 873
- L-form,**
 bacteria, electron microscopy, embedding/orientation 4927
 bacterial, blood culture 4939
 Brucella, penicillin + tetracycline/streptomycin/rifampicin 5639
 Escherichia coli, blood culture 4939
 Neisseria gonorrhoeae, polyvinylpyrrolidone medium 6780
 Proteus mirabilis, DD-carboxypeptidase 4069
 Staphylococcus aureus, antibiotics 3750
- L-form (Contd),**
 Staphylococcus aureus, blood culture 4939
 Staphylococcus aureus, enterotoxins 3450
 Streptococcus group A, streptococcin 4046
- Labelling,**
 chloramine T iodination, Escherichia coli outer membrane lipoprotein 8274
 radioactive, viruses, chloramine T iodination 9300
 radioiodine, Staphylococcus enterotoxin A 4279
- Labiales,**
 Erysiphe 304
- Labilomycin,**
 pulvomycin 1385
- Lablab,**
 Colletotrichum lindemuthianum, seed treatment fungicide 2824
 nodulation 2078
- Lablab bean,**
 seed, Aspergillus flavus 1838
- Laboratory,**
 medical microbiology, pathogenic microorganisms isolation, quality control 5614
- Laburnum,**
 Fusarium avenaceum 7919
- Laburnum vossii,**
 arabis mosaic virus 250
- Laccase,**
 Botrytis cinerea 7633 9409
 Fomes annosus, Norway spruce root constituents 2845
- Lact-Aid,**
 Saccharomyces lactis lactase, milk 4194
- beta-Lactam antibiotics,**
 + amikacin, antibacterial agent 7382
 + gentamicin, antibacterial agent 7382
 + mecillinam, antibacterial agent 1366
 + sisomicin, antibacterial agent 7382
 + tobramycin, antibacterial agent 7382
 analogue, antibacterial agent 8121 8122
 antibacterial agent 1310
 antibacterial agent, turbidimetry 8120
 melanin 1303
 nocardicin A, Nocardia uniformis, antibacterial agent 1434
 resistance, bacteria 1198
 resistance, bacteria, beta-lactamase 8952
 resistance, Yersinia pseudotuberculosis, penicillinase 4638
 tolerance, Bacillus subtilis 2168
 tolerance, Streptococcus pneumoniae 2168
 tolerance, Streptococcus sanguis 8126
- beta-Lactam antibiotics,**
 assay, Bacillus stearothermophilus 4719
 bactericide 6553
 bacteriostat 6553
 Clostridium perfringens 5628
 lysed Cephalosporium acremonium 9047
 Proteus 9049
 Pseudomonas aeruginosa 4731
- beta-Lactamase,**
 Bacillus cereus, affinity chromatography 4095
 Bacillus cereus, ampicillin 8153
 Bacillus cereus, dicloxacillin 9410
 bacteria 7542
 bacteria, beta-Lactam antibiotics resistance 8952
 bacteria, double disc method 3288
 bacterial, clavulanic acid 8178
 bacterial, isoelectric focusing 8368
 bacterial, Streptomyces beta-lactamase inhibitor 3347
 Bacteroides fragilis, cefoxitin 7403
 Bacteroides melaninogenicus, penicillins/cephalosporins 4640
 Bacteroides oralis, penicillins/cephalosporins 4640

Subject index

beta-Lactamase(Contd),

carbenicillin-resistant *Pseudomonas aeruginosa* 7634
 cephalosporin derivative 581 582
 cephalosporins, *Escherichia coli* 587
Chromobacterium violaceum,
 penicillins/cephalosporins resistance 3673
Enterobacter cloacae, cephalosporins 1323
Enterobacter cloacae, double disc method 3288
Escherichia coli 6900
Escherichia coli, cephoxazole + penicillin G 10252
Escherichia coli, double disc method 3288
Escherichia coli, penicillins resistance, R factor 8954
Haemophilus influenzae, ampicillin/cefuroxime 7378
Haemophilus influenzae, ampicillin resistance 2103 5531
Haemophilus influenzae, paper strip test 9266
Klebsiella aerogenes,
 penicillins/cephalosporins resistance, R factor 10122
Klebsiella pneumoniae, double disc method 3288
Neisseria gonorrhoeae, paper strip test 9266
Neisseria gonorrhoeae, penicillin resistance 8051
Neisseria gonorrhoeae, penicillin resistance, R-factor 6478
 penicillins, milk 4192
Pseudomonas aeruginosa 6900
Pseudomonas aeruginosa, penicillins resistance 2102
Serratia marcescens,
 penicillins/cephalosporins resistance 3674
Staphylococcus aureus, cefamandole 1326
Staphylococcus aureus, cefazolin 1326
Staphylococcus aureus, cefoxitin 1326
Staphylococcus aureus, cephalosporin antibiotic SK&F 59962 1326
Staphylococcus aureus, cephalosporins 1323
Staphylococcus aureus, cephalosporins resistance 5535
Staphylococcus aureus, cephoxazole + penicillin G 10252
Staphylococcus aureus, penicillins resistance 5535
Streptomyces 9411

beta-Lactamase inhibitor,

clavulanic acid 8178

Lactarius deliciosus,

food 2594

Lactarius necator,

lactarorufin N 5152

Lactarius rufus,

aroma compounds 7029

Lactarius torminosus,

aroma compounds 7029

Lactarius trivialis,

aroma compounds 7029

Lactarorufin N,

Lactarius necator 5152

Lactase,

cottage cheese 7002

fungi, immobilisation, lactose hydrolysis 9412

immobilised *Escherichia coli* 3289

Saccharomyces lactis, cheese 9555

Saccharomyces lactis, Lact-Aid, milk 4194

Saccharomyces lactis, low-lactose milk/milk product 7738

sour cream 7002

yoghurt 7002

Lactate dehydrogenase,

Lactobacillus casei 1657

Lactate dehydrogenase(Contd),

Lactobacillus fermenti, blue dextran-Sepharose 4B, affinity chromatography 1652
Pseudomonas aeruginosa cytoplasmic membrane 6821
Streptococcus group N, lactose fermentation, milk 2570
Lactenocin,
 tylosin, *Streptomyces fradiae* 6662
Lactic acid,
 bacteria, dry milk product 3386
 industrial waste fixed-film treatment 10453
Lactobacillus bulgaricus, whey 8490
 lactose fermentation liquor, whey, reverse osmosis 8491
 silage, assay 9633
Streptococcus cremoris, milk, psychrotropic bacteria 9546
Streptococcus lactis, milk, psychrotropic bacteria 9546
Ustilago nuda 6377
 waste whey fermentation 4852
Lactic acid bacterium,
 enzymes, cheese 7003
 fermenter 1570
 lyophilised, chicken feed 6094
 milk fermentation 1729
 provolone cheese 2577
 wine, amino acids 106
Lactic casein,
Streptococcus cremoris 7747
Lactic starter,
 Domiat cheese 1741
Lactic starter culture,
 phage 4198
Lactobacillic acid,
Escherichia coli triglyceride 5888
Lactobacillus,
 air-dried beef 172
 animal waste deodorisation 1487
 antibiotics 2994
 aroma compound 8425
 Awshari cheese 606C
 bacteriocin typing 7566
 bacteriocins 2439 6626
 bacteriocins, antibacterial agent,
Lactobacillus 9127
 bacteriostat, diaper 5817
 bile acid deconjugation 4169
 brewery, sucrose agar culture medium 5170
 cephalosporins 3010
 continuous culture, hydroxyapatite-coated glass beads 6767
 cream dessert 3384
 culture medium 7565
 dahi 4163
 1,2-dehydrogenation, D-homosteroid 5978
 dry sausage 3400
 enzyme, blue dextran-Sepharose 4B, affinity chromatography 1652
 enzymes, food 134
 estuarine water/sediment, petroleum degradation, numerical taxonomy 10109
 fermented flour 2588
 freezing preservation 6541
 German sausage 184
 high molecular weight closed circular DNA 6937
 intestinal, *Lactobacillus lactis* pig feed 9624
 meat 4208
 Minitek system 9274
 pasta filata cheese 9563
 penicillins 3010
 polyphosphate hydrolysis, meat product 2585
 protein, amino acids, digestibility 6837
 riboflavin assay, beer, yeast 6016
 silage 6105

Subject index

Lactobacillus (Contd),

swine faeces,
culture/isolation/identification medium 4938
thin-layer chromatography 9262
Ulloa cheese 9572
vacuum-packaged beef 1791 2614 6127
vacuum-packaged trout, gamma-irradiation 5258
waste treatment 5786
waste treatment, protein/enzymes/vitamins 2313
wet brewer's grains silage, preservation 4232
whey 162
Lactobacillus acidophilus,
acidophilus milk 4193
anhydromevalonic acid lactone 1272
bacteriocin typing 7566
bacteriocins 6626
bis-biguanido hexane compound, oral hygiene 8261
bile acid deconjugation 4169
culture medium 7565
fermented flour 2588
fermented milk products 6056
fluoride mouthwash 7529
Lyophilisation preservation, gelatine capsule 7359
lysine, fermented food 5205
milk 6042
milk product 6049
phosphofructokinase 8383
potato-processing waste fermentation, ruminant feed 9613
preservation 7358
protein, amino acids, digestibility 6837
ruminant feed, milk 944
soybean milk, yoghurt 5216
tests, impregnated disc method 10548
wheat processing 936
whey fermentation, animal feed 7779
Lactobacillus arabinosus,
assay, pantothenate, fermented milk product 1731
nicotinic acid assay, plasma 10565
thymidine assay, culture medium 9275
Lactobacillus bifidus,
dairy product 6044
fermented flour 2588
growth promoting substance, *Escherichia coli* cultural medium 7683
Lactobacillus brevis,
bacteriocins 6626
citrus product 6091
culture medium 7565
1,2-dehydrogenation, D-homosteroid 5978
fermented flour 2588
hop oil emulsion, beer 5168
Lactobacillus bacteriocins 9127
rye germ culture medium 4953
silage, grass-fructosane degradation 6106
tests, impregnated disc method 10548
wheat processing 936
wine, amino acids 106
Lactobacillus buchneri,
bacteriocins 6626
fermented flour 2588
glucose 6-phosphate dehydrogenase, blue dextran-Sepharose 4B, affinity chromatography 1652
Lactobacillus bacteriocins 9127
Lactobacillus bulgaricus,
+ *Streptococcus thermophilus*, culture 150
anti-pyrosis composition 2416
aroma compound 8425
beef 6077
brine cheese 3392
cheese 152 6048 6049 7004
cheese whey fermentation, ruminant feed 4226

Lactobacillus bulgaricus (Contd),

culture medium 7565
dahi, colostrum 1730
dairy starter 6054
disintegration 2365
Emmentaler cheese 7007
fermented flour 2588
fermented milk products 6056
immobilised, beta-galactosidase 4087
lactic acid, whey 8490
lyophilisation preservation 543
lyophilisation preservation, gelatine capsule 7359
lysine, fermented food 5205
milk 139
pasta filata cheese 1742
phage, medium 151
potato-processing waste fermentation, ruminant feed 9613
preservation 7358
protein, amino acids, digestibility 6837
soybean cheese spread 9599
waste treatment 5786
waste treatment, protein/enzymes/vitamins 2313
wheat processing 936
whey fermentation, animal feed 7779
yoghurt 147 149 927 1732 5214 5215 6067 6069 7742 9548
yoghurt, hydrolysed milk 9547
yoghurt, lactase 7002
yoghurt, soybean meal 189
yoghurt, *Streptococcus thermophilus* selective medium 6070
Lactobacillus casei,
antibiotic A23187 2239
aroma compound 8425
bacteriocin typing 3179
bacteriocins 6626
bile acid deconjugation 4169
brinsen cheese 6066
cheese 6048
cheese, citrate 6047
culture medium 7565
dihydrofolate reductase 24
fermented flour 2588
frozen concentrated orange juice, radiometry 9608
histamine, food poisoning 9587
hop oil emulsion, beer 5168
immobilised, malic acid decarboxylase, L-malic acid 7636
lactate dehydrogenase 1657
riboflavin assay, beer/yeast 4160
serum folate assay 4952
sheep cheese 6066
silage, grass-fructosane degradation 6106
soybean cheese spread 9599
Lactobacillus caucasicus,
brine cheese 3392
dahi, colostrum 1730

fermented flour 2588
Lactobacillus cellobiosus,
Lactobacillus bacteriocins 9127
Lactobacillus cremoris,
dairy starter 6054
Lactobacillus delbrueckii,
batch culture 3979
brewery, hygiene 8444
culture medium 7565
enzymatically-active protein cell membrane complex 5912
fermented flour 2588
potato-processing waste fermentation, ruminant feed 9613
protein, amino acids, digestibility 6837
rye germ culture medium 4953
soybean idli fermentation 7027

Subject index

- Lactobacillus delbrueckii(Contd),**
 waste treatment 5786
 waste treatment, protein/enzymes/vitamins 2313
 wheat processing 936
- Lactobacillus fermenti,**
 bacteriocins 6626
 fermented flour 2588
 glucose 6-phosphate dehydrogenase, blue dextran-Sepharose 4B, affinity chromatography 1652
 lactate dehydrogenase, blue dextran-Sepharose 4B, affinity chromatography 1652
 Lactobacillus bacteriocins 9127
 penicillin resistance, acriflavine 1204
 6-phosphogluconate dehydrogenase, blue dextran-Sepharose 4B, affinity chromatography 1652
 protein, amino acids, digestibility 6837
 soybean idli fermentation 7027
- Lactobacillus fermentum,**
 culture medium 7565
 thiamine assay, beer/yeast 4160
 wheat processing 936
- Lactobacillus gayonii,**
 brewery, culture medium 7699
- Lactobacillus helveticus,**
 bacteriocin typing 7566
 bacteriocins 6626
 cheese 7004
 culture medium 7565
 cultured butter 5213
 Emmental cheese 7749 8500
 fermented flour 2588
 hard cheese 6057
 pasta filata cheese 1742
 phage, medium 151
 soybean cheese spread 9599
- Lactobacillus heterohiochii,**
 anhydromevalonic acid lactone 1272
- Lactobacillus jugurti,**
 bacteriocin typing 7566
 bacteriocins 6626
- Lactobacillus lactis,**
 animal feed 132
 bacteriocins 6626
 cheese 152 6048
 fermented flour 2588
 food 132
 hard cheese 6057
 Pellicularia sasakii/Pellicularia filamentosa cell wall-lysing enzyme complex 4072
 phage, medium 151
 pig feed, intestinal Lactobacillus/Escherichia coli 9624
 preservation 7358
 wheat processing 936
- Lactobacillus leichmannii,**
 assay, vitamin B12, fermented milk product 1731
 culture medium 7565
 fermented flour 2588
 vitamin B12 assay 10566
- Lactobacillus mali,**
 cider, Lactobacillus yamanashiensis, wine 6975
- Lactobacillus pastorianus,**
 brewery, hygiene 8444
- Lactobacillus plantarum,**
 bacteriocin typing 3179
 bacteriocins 6626
 biotin assay, beer/yeast 4160
 bovine manure silage 7791
 brinsen cheese 6066
 cheese, citrate 6047
 culture medium 7565
 dahi, colostrum 1730
 fermented flour 2588
 fermented meat product 6082
- Lactobacillus plantarum(Contd),**
 frozen concentrated orange juice, radiometry 9608
 lysine, fermented food 5205
 lysine, silage 5205
 nicotinic acid assay, beer/yeast 4160
 nicotinic acid assay, plasma 10565
 olive fermentation 941
 orange juice assay 5238
 pantothenic acid assay, beer/yeast 4160
 phosphofructokinase 8383
 potato-processing waste fermentation, ruminant feed 9613
 protein, amino acids, digestibility 6837
 rye germ culture medium 4933
 sauerkraut 2593
 sheep cheese 6066
 silage, grass-fructosane degradation 6106
 Streptomyces D-alanyl-meso-2,6-diaminopimelic acid endopeptidase 4063
 Ulloa cheese 9572
 undecaprenyl pyrophosphatase synthetase 52
 wheat processing 936
- Lactobacillus salivarius,**
 bacteriocins 6626
 bacteriocin typing 7566
 culture medium 7565
- Lactobacillus sanfrancisco,**
 fermented flour 2588
- Lactobacillus suboxydans,**
 enzymatically-active protein cell membrane complex 5912
- Lactobacillus thermophilus,**
 fermented flour 2588
 fermented flour, Lactobacillus 2588
 potato-processing waste fermentation, ruminant feed 9613
 protein, amino acids, digestibility 6837
 waste treatment 5786
 waste treatment, protein/enzymes/vitamins 2313
- Lactobacillus viridescens,**
 thiamine assay, food 9535
- Lactobacillus yamanashiensis,**
 wine, Lactobacillus mali, cider 6975
- Lactoperoxidase,**
 milk preservation 2609
- Lactoperoxidase-iodine-125,**
 Bordetella pertussis protein envelope radiolabelling 4943
- Lactose,**
 fermentation, milk, Streptococcus group N 2570
 hydrolysis, immobilised fungal lactase 9412
 immobilised Escherichia coli beta-galactosidase 4087
 immobilised Kluyveromyces lactis beta-galactosidase 4087
 immobilised Lactobacillus bulgaricus beta-galactosidase 4087
 immobilised Saccharomyces lactis beta-galactosidase 4087
 milk, fungal beta-galactosylase 8486
 yoghurt, gas-liquid chromatography 7743
- Lactose fermentation liquor,**
 lactic acid, reverse osmosis, whey 8491
- Lactose oxidase,**
 Enterobacter liquefaciens, dairy effluent treatment 3115
 Serratia atypique, dairy effluent treatment 3115
- Lactuca sativa,**
 beet western yellows virus, carbendazim 2819
 Bremia lactucae 4367 5376
 Bremia lactucae, fungicide 4391 5426
 lettuce mosaic virus/cucumber mosaic virus 317 7921

Subject index

- Lactuca sativa (Contd),**
 poliovirus, sewage sludge/effluent soil disposal 4561
 resistance, *Bremia lactucae* 4467 4468 7956
 rhizosphere, vesicular-arbuscular mycorrhiza 7257
Sclerotinia minor 3514
Sclerotinia sclerotiorum 2070
Septoria lactucae, benomyl 6371
Sterphylium botryosum post-harvest decay, fungicide 4438
- Lactuca virosa,**
 lettuce mosaic virus + cucumber mosaic virus 7921
- Laelia,**
Laelia red leafspot virus 7158
- Laelia red leafspot virus,**
 orchid 7158
- Lagena radiculicola,**
 soil, wheat, wheat spindle streak mosaic virus 8650
- Lagenaria leucantha,**
 bottle-gourd mosaic virus + *Sphaerotheca fuliginea* 2730
Sphaerotheca fuliginea 1056
- Lagenaria siceraria,**
Erysiphe cichoracearum 304
Pythium butleri 4374
Sphaerotheca fuliginea 304
- Lagenaria vulgaris,**
 bottle gourd mosaic virus, root-knot nematode 2740
- Lagenaria vulgaris,**
Colletotrichum lagenarium, fungicide 6357
 seed, fungi, fungicide 8682
 watermelon mosaic virus 8673
- Lager,**
 9505
 conditioning 6973
- Lagerstroemia indica,**
Erysiphe lagerstroemiae, resmethrin 4500
- Lagerstroemia parviflora,**
Phyllosticta helleborella 1836
- Laggera aurita,**
 essential oil, antibacterial agent 5548
- Lagoon,**
 aerated, wastewater treatment 2295
 dairy effluent treatment 4858
 dairy waste treatment 679
 effluent, reed canarygrass irrigation, coliforms 4607
 sewage, aeration 1482
 sewage effluent treatment 9199
 sewage sludge 6679
 sewage treatment 3870
 tannery effluent treatment 10449
 waste treatment 7475 8210
 wastewater treatment 6678 7474 8211
 winery waste treatment 10445
- Lagopus lagopus,**
 antimicrobial agent 2611
- Laidlomycin,**
 structure 4807
- Lamb,**
 bactericide, hypochlorous acid 965
 carcass, bacteriology 177
 carcass, microorganisms 178
 hot boning, hygiene/quality control 8509
 mince, microorganisms 178
 vacuum-packed, bacteriology 7804
 vacuum-packed, *Yersinia enterocolitica* 2612
- Lambdamycin,**
 chicken feed 9629
Streptomyces glaucochromogenes, antibacterial agent/antiviral agent/antitumour antibiotic 4808
Streptomyces glaucochromogenes, chartreusin 10375
- Laminar air flow,**
 operating theatre 731
 operating theatre, haemostat, bacteria 4849
- Lanatoside A,**
Colletotrichum fuscum 869 870
Phyllosticta digitalis 870
Septoria digitalis 870
- Lanatoside C,**
Colletotrichum fuscum 869 870
Phyllosticta digitalis 870
Septoria digitalis 870
- Lancefield hot-hydrochloric acid extraction,**
Streptococcus 1577
- Land disposal,**
 sewage sludge 1489 1490
 wastewater 3106
- Lankacidin C,**
 + protein SP127, *Pseudomonas aeruginosa* 8335
- Lankamycin,**
 3-de-O-methyl-2,3-anhydro-, *Streptomyces violaceoniger* 1421
 + protein SP127, *Pseudomonas aeruginosa* 8335
- Lanostanediol,**
Scleroderma aurantium 4033
- Lantana camara,**
Phoma lantanae 2663
- Laodelphax striatellus,**
 maize rough dwarf virus, corn 9781
- Lappa,**
Puccinia bardanae 6250
- Larch,**
 European, *Fomes annosus* 3604
 soil, mycorrhiza 6380
 western, decay fungi 5446
 western, *Phellinus weirii* 7232
 witches' broom, rickettsia-like organism 410
- Lard,**
Staphylococcus aureus, isolation medium 1714
- Larix,**
 soil, mycorrhiza 6380
- Larix decidua,**
Fomes annosus 3604
 witches' broom, rickettsia-like organism 410
- Larix laricina,**
Polyporus tomentosus 1125
- Larix occidentalis,**
 decay fungi 5446
Phellinus weirii 7232
- Larkspur,**
Pythium ultimum, fungicide 2805
- Lasagna,**
 frozen, *Staphylococcus aureus* 2590
- Lasalocid,**
 + biogenic amines, complexation constants, fluorimetry 8185
 numbering system 1384
- Lasalocid sodium,**
 animal feed, assay, *Bacillus subtilis* 5244
- Laser beam-induced plasma,**
 sterilisation, food container/medicament container 1279
- Laser fluorimetry,**
 + high-pressure liquid chromatography, aflatoxins 9697
- Lasiodiplodia theobromae,**
 sweet potato post-harvest decay, cellulolytic/pectic enzymes 353
- Lassa virus vaccine,**
 2279
- Late blight,**
Phytophthora infestans, potato 1076 2754 4404 4405 4406 4407 4408 6287 7165 7931 9882 9883
Phytophthora infestans, potato, aminomethylenemalononitrile derivatives 3578
Phytophthora infestans, potato, electron microscopy 3524 6288
Phytophthora infestans, potato, fungicide 4404 7203

Subject index

Late blight(Contd),

- Phytophthora infestans, potato, insecticide 4501
- Phytophthora infestans, potato, phytoalexin 2793
- Phytophthora infestans, potato, resistance 3558 6342
- Phytophthora infestans, potato, rishitin 6351
- Phytophthora infestans, potato, rishitin/lubimin/rishitinol 1940
- Phytophthora infestans, potato, rishitin/lyubimin 4495
- Phytophthora infestans, potato, rishitin/necrosis 6286
- Phytophthora infestans, potato, soil 7930
- Phytophthora infestans, potato, streptomycin, phytoalexin 3525
- Phytophthora infestans, tomato 8740
- Phytophthora infestans, tomato, 2-aminopyrimidine derivatives 395
- Phytophthora infestans, tomato, plant protection 5392
- Phytophthora infestans, tomato, pyrazolium derivatives 3581
- Phytophthora infestans, tomato, 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589
- Phytophthora infestans, tomato, triazinedione derivatives 1119

Latent rosette disease,

- rickettsia-like organism, spinach 7173
- rickettsia-like organism, sugarbeet 7173

Laterosporamine,

- Bacillus laterosporus, antibacterial agent 2261

Latex paint film,

- fungi, surface disinfection 10092

Lathyrus tuberosus,

- Cercospora personata, Cercospora arachidicola, fungicide 8792

Laudanosine,

- Cunninghamella blakesleeana, pseudocodamine 77

Laurea nudicaulis,

- phyllody, mycoplasma-like organism 1065

Laundry,

- washing machine sanitation 4892

Laundry bag,

- soluble, hospital hygiene, Escherichia coli, poliovirus 7518

Laundry oil,

- antibacterial agent, 8-hydroxyquinoline 3140
- bactericide 2341

Laundry rinse,

- antibacterial agent, antibiotic U-48266 4789

Lauric acid,

- Escherichia coli triglyceride 5888

Lausonia alba,

- leaf extract, antifungal agent 7331

Lausonia inermis,

- antibacterial agent/antifungal agent 6523

Leachate,

- waste tip, microbiology 10451

Leaching,

- bacterial 461
- bacterial, stone building 467
- chalcopyrite, Thiobacillus ferrooxidans 1180
- copper, ferrollobus 10087
- copper, Sulfolobus acidocaldarius 10087
- metal, ferrollobus 10087
- metal, Sulfolobus acidocaldarius 10087
- metal, Thiobacillus ferrooxidans, chalcopyrite 464
- oil shale, Thiobacillus concretivorus 2900
- oil shale, Thiobacillus thiooxidans 2900
- soil, nitrogen transformation 438
- uranium, Ferrobacillus ferrooxidans, Rhodotorula 10090
- uranium, Ferrobacillus/Thiobacillus 466

Leaching(Contd),

- uranium, Thiobacillus ferrooxidans 2905
- uranium, Thiobacillus ferrooxidans, iron oxidation 803v
- zinc, Thiobacillus ferrooxidans 1181

Lead,

- Aeromonas 3656
- hydrocarbon degradation, soil microorganisms 10106
- microbial enzymes, soil 6409
- soil microorganisms 10038
- tolerance, Penicillium ochro-chloron 8930
- triorgano-, bactericide/fungicide 2129

Lead nitrate,

- wood preservative, Schizophyllum commune 8865

Leaf blight,

- Alternaria alternata, Ocimum sanctum 2751
- Alternaria alternata, wheat 1838
- Alternaria carthami, safflower 6295
- Alternaria cepulicola, onion 2752
- Alternaria cepulicola, onion, fungicide 4492
- Alternaria dauci, carrot 9855
- Alternaria eichhorniae, toxin, water hyacinth 7823
- Alternaria trititica, wheat 1038 2711 8651
- Alternaria trititica, wheat, fungicide 1102
- Alternaria trititica, wheat, resistance 7950
- Botrytis squamosa, onion 6278 6279 7157
- Cercospora sequoiae, Rocky Mountain juniper 6385
- Cladosporium echinulatum, garlic 6268
- Colletotrichum crossandrae, Peristrophe bicalyculata 1072
- Colletotrichum gloeosporioides, Allamanda cathartica 5364
- Corticium sasakii, rice 2640
- Curvularia eragrostidis, green gram 1010
- Drehslera rostrata, cassava 4378
- Fabraea maculata, hawthorn, benomyl 10008
- Fusarium lateritium, cockscomb 311
- Gnomonia platani, sycamore, benomyl 10008
- Helminthosporium maydis, corn 5326
- Helminthosporium turcicum, corn 4333
- Helminthosporium turcicum, corn, resistance 2781
- Helminthosporium turcicum, maize 276
- Macrophomina phaseolina, cotton 1924
- Microcyclus ulei, rubber 4289 4414
- Phytophthora parasitica, Pilea imperialis, pyroxychlor 3518
- Sclerotium rolfsii, cowpea 1849
- Xanthomonas oryzae, rice 6165 7129 9796
- Xanthomonas oryzae, rice, plant protection 1029
- Xanthomonas oryzae, rice, resistance 2703
- Xanthomonas oryzae, rice 9797

Leaf blotch,

- Glomerella cingulata, Cissus antarctica 1921
- Glomerella cingulata, Codium variegatum 7912
- Guignardia aesculi, Ohio buckeye, benomyl 10008
- Phoma exigua, poplar 4541
- Phoma exigua, white poplar 4541
- Polystigma ochraceum, almond 9823
- Rhynchosporium secalis, barley 6209
- Septoria nodorum, wheat, resistance 9936
- Septoria tritici, Agrosticum, resistance 3552
- Septoria tritici, wheat 9814
- Septoria tritici, wheat, fungicide 9964
- Septoria tritici, wheat, resistance 3552
- 9x14 9937

Leaf chlorosis,

- Pseudomonas phaseolicola phaseolotoxin, bean 7858

Leaf fall,

- Phytophthora nicotianae, mandarin orange, fungicide 2724

Subject index

- Leaf freckles,**
Corynebacterium nebraskense, corn,
preservation 10217
- Leaf gall,**
Exotasisium vexans, tea, electron microscopy
3531
- Leaf litter,**
microbial degradation 9523
- Leaf mottle,**
Arachia mottle virus, peanut 5308
- Leaf mould,**
Cladosporium fulvum, tomato 8741 9901
Fulvia fulva, tomato, plant protection 5392
- Leaf necrosis,**
Pseudomonas syringae, wheat 5333
- Leaf rot,**
Bipolaris halodes, coconut palm, Bordeaux
mixture/copper oxychloride 3506
Phytophthora parasitica, betel, antibiotics
997C
- Leaf rust,**
Cercospora arachidicola, peanut 7114
Cerotilum fici, fig, fungicide 5421
Hemileia vastatrix, coffee, oxycarboxin 20EC
9977
Melampsora larici-populina, black poplar,
fungicide 2047
Melampsora larici-populina, poplar 4540
Melampsora larici-populina, poplar, fungicide
2047
Melampsora medusae, eastern cottonwood,
resistance 5456
Melampsora medusae, poplar 4540
Pasteurella greviae, phalsa, Alternaria 1073
Puccinia arachidis, peanut 6194
Puccinia dispersa, rye 2707
Puccinia graminis tritici, wheat 7134
Puccinia hordei, barley, resistance 1981
1982 8768 9929
Puccinia hordei, barley, spectral reflectance
712C
Puccinia persistens, wheat 7880
Puccinia recondita, air 4318
Puccinia recondita, cereal 271
Puccinia recondita tritici, wheat 293 4357
5235 7895 9773 981C 9811
Puccinia recondita tritici, wheat, electron
microscopy 4356
Puccinia recondita tritici, wheat, resistance
2551 9811 9943 9935
Puccinia recondita tritici, wheat, zinc-maneb
8811
Puccinia recondita, wheat 1892 1893 6232
7135
Puccinia recondita, wheat, resistance 1985
7135 8773
Puccinia rubigo-vera tritici, wheat,
furan-3-carboxamide derivatives 1112
Puccinia sorghi, corn, fungicide 9963
Puccinia sorghi, corn, haustorial neckband,
Casparian strip 4300
Puccinis recondita tritici, wheat, fungicide
378
Uromyces appendiculatus, Vigna sesquipedalis
4314
Uromyces phaseoli, bean, ethylene 9758
Uromyces phaseoli, cowpea, haustorial
neckband, Casparian strip 4300
- Leaf scab,**
Ascochyta, willow 10018
Phyllosticta, willow 10018
- Leaf scald,**
bacterial, sugarcane 6228
Rhynchosporium oryzae, rice 8647
Rhynchosporium secalis, barley 3478 9778
- Leaf scorch,**
bacteria, almond 9822
Phytophthora, horse chestnut 2848
Xanthomonas albilineans, sugarcane,
resistance 3549
- Leaf sheath spot,**
Cercospora digitariae, Digitaria stricta
1927
- Leaf shrivel,**
potato virus Y, tomato, plant protection
5392
- Leaf smut,**
Entyloma oryzae, rice, fungicide 4486
- Leaf speck,**
Pseudomonas tomato, tomato 9900
- Leaf spot,**
Alternaria alternata 6170
Alternaria alternata, bean 9755
Alternaria alternata, neem tree 3615
Alternaria alternata, Plumeria acutifolia
1937
Alternaria brassicae, alfalfa 2668
Alternaria infectoria, betel 1912
Alternaria macrospora, passionfruit 8711
Alternaria/Pleospora infectoria, Ipomoea
sepiaria 1909
Alternaria, sunflower 9943
Alternaria tenuis, yam 2763
Ascochyta pisi, pea, pisinatin 6350
Bipolaris sorokiniana, wheat 4350
Cercospora arachidicola, peanut, resistance
1979
Cercospora beticola, spinach 2661
Cercospora beticola, sugarbeet 1953 4364
7174 7175
Cercospora beticola, sugarbeet, benomyl
resistance 5389
Cercospora beticola, sugarbeet, resistance
2788
Cercospora beticola, sugarbeet, topsin M
8823
Cercospora bidentis, Jerusalem artichoke
6252
Cercospora canescens, Vigna unguiculata,
resistance 5405
Cercospora carthami, safflower 305
Cercospora colanituberosi, potato, resistance
7947
Cercospora cruenta, cowpea 6180
Cercospora cruenta, cowpea, resistance 7194
Cercospora cruenta, Vigna unguiculata,
resistance 5405
Cercospora digitariae, Digitaria stricta
1927
Cercospora elaeidis, oil palm, fungicide
8803 9968
Cercospora fusimaculans, pearl millet,
culture medium 1022
Cercospora, giant witchweed 9866
Cercospora greviae, phalsa, Cephalosporium
roseo-griseum 1073
Cercospora linicola, flax 305
Cercospora mitragynae, Mitragyna parvifolia
5460
Cercospora personata, Cercospora
arachidicola, groundnut peavine, fungicide
8792
Cercospora personata, peanut, carbendazim
4516
Cercospora personata, peanut, thiabendazole
4516
Cercospora soja, soybean 6196
Cercospora sorghi, Sorghum bicolor, fungicide
7973
Cercospora, urd bean 2674
Chaetomium dolichotrichum, wheat 1890
Cladosporium martianoffinum, white poplar
2046
Colletotrichum, Amaranthus viridis 1909
Colletotrichum gloeosporioides, Indian cassia
3615
Colletotrichum gloeosporioides, kapok tree
6274
Corynespora callicioidea, Urena lobata 4430

Subject index

Leaf spot(Contd),

Corynespora cassiicola, *Rauwolfia serpentina* 1079
Cristulariella pyramicalis, black walnut 2852 2853
Crotalaria juncea, sunnhemp 7115
Curvularia, corn 4330
Curvularia lunata, cluster bean, fungicide 2002
Curvularia lunata, cotton, pectic enzymes 5083
Curvularia pallescens, rubber 1081
Dichotomophthoropsis nymphaeaeum, water lily 4369
Dichotomophthoropsis nymphaeaeum, water shield 4369
Drechslera, ryegrass 285
Drechslera tritici-repentis, wheat 4350
Epicoccum purpureescens, *Minusops elengi* 3615
Erwinia mallotivora, *Mallotus japonicus* 3515
Gloeocercospora sorohi, *Sorohum bicolor*, fungicide 7973
Gloeosporium fructigenum 6170
Glomerella circinata, *Nyctanthes arborescens* 1909
Helminthosporium catenarium, reed canarygrass 2699
Helminthosporium gossypii, cotton 1055
Helminthosporium oryzae, rice 8645
Helminthosporium, rice, tri-2-norbornyltin derivatives 6363
Helminthosporium sativum, wheat 2711
Helminthosporium tetramera, ragi 1944
Helminthosporium tetramera, ragi, phenolic compound 1945 1946
Helminthosporium vaasanii, phthalonitrile 3579
Hyalostachybotrys sacchari, sugarcane 6228
Isariopsis indica, *Zizyphus mauritiana* 8701
Leptosphaerulina trifolia, Egyptian clover 6186
Lophodermium mangiferae, mango 7140
Macrophoma phaseolina, cotton 1924
Marssonina brunnea, eastern cottonwood 6394
Marssonina brunnea, eastern cottonwood, resistance 5456
Mycocentrospora acerina, pansy 7159
Mycosphaerella fijiensis, banana 298
Mycosphaerella pinodes, pea, pisatin 6350
Mycovellosiella cajani, pigeon pea, resistance 6331
Myrothecium roridum, ramie 7168
Myrothecium verrucaria, birdsfoot trefoil 6189
Myrothecium verrucaria, *Lotus* 6189
Myrothecium verrucaria, *Lotus aff. decumbens* 6189
Myrothecium verrucaria, *Lotus creticus* 6189
Myrothecium verrucaria, *Lotus major* 6189
Myrothecium verrucaria, *Lotus pusillus* 6189
Periconia manihotticola, cassava 6258
Periconia parasitica, neem tree 7155
Pestalotiopsis neglecta, *Mimusops hexandra* 4395
Phaeoramularia capsicicola, pepper 2753
Phoma herbarum, *Chrysanthemum cinerariaefolium* 1909
Pithomyces maydis, corn 6219
Pleosphaerulina sojaecola, soybean 6196
Pleospora infectoria, sunnhemp 7115
Pringsheimia, sunnhemp 1082
Pseudomonas aptata, nasturtium 321
Pseudomonas syringae, sunflower 1956
Pyricularia pennsylvanica, bajra 1025
Ramularia carthami, safflower 305
Septoria avenae triticea, wheat 4350
Septoria, celery, cupric hydroxide 6259
Septoria cornicola, red-osier dogwood, benomyl 10008
Septoria, eastern cottonwood, resistance 5457

Leaf spot(Contd),

Septoria glycines, soybean 6196
Septoria helianthi, sunflower 9943
Septoria humuli, hop, captan 2743
Septoria lycopersici, tomato, plant protection 5392
Septoria tritici, wheat, fungicide 1894
Spiloea oleagina, olive 9875
Stachybotrys atra, sunnhemp 2759
Stemphylium botryosum, alfalfa 6176
Stemphylium botryosum, alfalfa, resistance 2779 2780
Thanatephorus cucumeris, jute 8703
Theobroma cacao, cacao 1050
Trichothecium roseum, betel 1912
Xanthomonas nigromaculans, zinnia 340
Xanthomonas pruni, peach 9841
Xanthomonas phaseoli, green gram 9765
Leaf stripe,
Helminthosporium gramineum, barley 3475 4315
Helminthosporium gramineum, barley, sporulation medium 1594
Pseudomonas rubrilancea, teosinte 1886
Pyrenophora graminea, barley 6207
Leaf wilt,
Corynebacterium nebraskense, corn, preservation 10217
Leafhopper,
 aster yellows, celery 7910
 beet, beet curly top virus, sugarbeet, tomato 9891
 cereal chlorotic mottle virus, Gramineae 7117
 clover yellow edge agent, clover 262
Fusarium roseum, alfalfa 6174
Fusarium roseum, red clover 6174
Fusarium roseum, white clover 6174
 lethal yellowing, coconut palm 8687
 maize chlorotic dwarf virus, corn, insecticide 364
 maize dwarf mosaic virus, corn, insecticide 364
 maize rough dwarf virus, corn 9781
 Pierce's disease, grapevine, *Lactobacillus* 7152
 rice dwarf disease virus, rice, cartap 7962
Spiroplasma citri, sweet orange 9831
 witches' broom disease, loofah 319
Leather,
 antibacterial agent/antifungal agent 469
 antibacterial agent, penicillins 3753
 bacteriostat/fungistat,
 benzisothiazolin-3-one derivatives 534
 fungicide 2053
 fungicide, 3,5-dihalo-4-hydroxyacetophenones 8076
 fungicide, 1,2-dithiol-3-thione derivatives 8077
 hide treatment, microbial protease 8386 8387
 partially-processed hide/skin preservation 7285 7286
Leather fat liquoring composition,
 yeast lipid, hydrocarbon 3666
Leather industry,
 microbial protease 5041
Leathery pocket,
Penicillium funiculosum, pineapple 5383
Lecanosticta acicola,
 fructification sections, scanning electron microscopy 3197
Lecithin-cholesterol liposome,
 culture medium, *Mycobacterium* 2381
Lecithinase,
 Actinomycetales 5075
 Bacteroides 3249
 Pseudomonas 5075
Ledermycin,
 mycoplasma-like organism, citrus greening, sweet orange 5355

Subject index

Ledermycin(Contd),

- mycoplasma-like organism, little leaf disease, eggplant 5372
- mycoplasma-like organism, sandal spike, sandal 5464

Leea macrophylla,

- Cercospora leaeae-macrophyllae* 998

Leek,

- Alternaria porri* 8706
- Sclerotinia porri* 7920

Legume,

- + nitrogen-fixing bacteria, inoculation device 8025
- + *Rhizobium*, nitrogen fixation 2077 2080 2413 2875 4590 5872
- + *Rhizobium*, nitrogen fixation, glutamine synthetase 8026
- fungal diseases 5000
- nodulation 2078
- seed, *Rhizobium*, filter mud carrier 2879

Leguminosae,

- Corticum sasakii* 7888
- fungal diseases 5000
- mungbean yellow mosaic virus 4294
- Phakopsora pachyrhizi* 4312
- Phytophthora* 6172
- Pythium* 6172
- rhizosphere/root, mycoflora 2865
- Thielaviopsis basicola* 436
- viruses 7107

Leiosphaerella longispora,

- coconut palm 4382

Lemon,

- citrus crinkly leaf virus, citrus infectious variegation virus 9830
- Fusarium oxysporum* post-harvest decay, fungicide 9916
- Geotrichum candidum* post-harvest decay, 1-[beta-(allyloxy)-2,4-dichlorophenethyl]-imidazole 3541
- mal secco, *Phoma tracheiphila* phytotoxin 9835
- Mosambi leaf crumbling virus 6243
- mycoplasma diseases 8662
- Penicillium digitatum* post-harvest decay, 1-[beta-(allyloxy)-2,4-dichlorophenethyl]-imidazole 3541
- Penicillium italicum* post-harvest decay, 1-[beta-(allyloxy)-2,4-dichlorophenethyl]-imidazole 3541
- Phoma tracheiphila* 9834
- Phoma tracheiphila*, plant protection 9833
- post-harvest decay, ethylene 347
- post-harvest decay, *Phytophthora citrophthora* 1969
- processing wastewater treatment, activated sludge 6698
- rough, young tree decline/sand hill decline 5357
- virus diseases 8662

Lemon grass,

- Puccinia naleanishiki* 997

Lens culinaris,

- pea seedborne mosaic virus 8610

Lens esculenta,

- aflatoxins 9703
- Fusarium oxysporum*, fungicide 4484
- Fusarium solani*, plant protection/fungicide 2789
- Pythium ultimum*, plant protection/fungicide 2789
- Rhizoctonia solani*, plant protection/fungicide 2789
- Sclerotium rolfsii*, seed treatment fungicide 4523

Lentil,

- aflatoxins 9703
- Fusarium oxysporum*, fungicide 4484

Lentil(Contd),

- Fusarium solani*, plant protection/fungicide 2789
- pea seedborne mosaic virus 8610
- Pythium ultimum*, plant protection/fungicide 2789
- Rhizoctonia solani*, plant protection/fungicide 2789
- Sclerotium rolfsii*, seed treatment fungicide 4523

Lentinellus,

- methylated cinnamic acid derivatives 8432

Lentinellus cochleatus,

- methylated cinnamic acid derivatives 8432

Lentinellus vulpinus,

- methylated cinnamic acid derivatives 8432

Lentinus,

- methylated cinnamic acid derivatives 8432

Lentinus edodes,

- food 2594
- methylated cinnamic acid derivatives 8432
- Pellicularia sasakii*/*Pellicularia filamentosa* cell wall-lysing enzyme complex 4072

Lentinus kauffmanii,

- methylated cinnamic acid derivatives 8432

Lentinus lepideus,

- fungicide 2053
- methylated cinnamic acid derivatives 8432

Lentinus ponderosus,

- methylated cinnamic acid derivatives 8432

Lentinus subnudus,

- food 3409
- mushroom 9601
- protein amino acids 5236

Lentinus sulcatus,

- methylated cinnamic acid derivatives 8432

Lentinus tigrinus,

- methylated cinnamic acid derivatives 8432

Lenzites trabea,

- fungicide 2053
- hardwoods, decay resistance 420
- redwood, decay resistance 10026

Lepiota hupalopus,

- 8291

Leptinotarsa decemlineata,

- Bacillus thuringiensis* insecticide 4150

Leptocorisa acuta,

- Xanthomonas oryzae*, rice 1030

Leptoglegnia,

- fungal oospore parasite, soil 8881

Leptophos,

- Pyricularia oryzae*, rice 4487 5419

Leptoporus lignosus,

- rubber tree 329

Leptospermum juniperinum,

- Phytophthora cinnamomi* 8596

Leptosphaeria,

- 8291

Leptosphaeria doliolium,

- sunflower 6301

Leptosphaeria maculans,

- rape 6292
- rape, benomyl 3598
- rapeseed 8722

Leptosphaeria nodorum,

- bromegrass, *Leptosphaeria nodorum*, timothy grass 6236
- pynnidiospores, air, wheat 4351
- ryegrass 6236
- wheat 6236

Leptosphaerulina,

- penicillin amidase, 6-aminopenicillanic acid 5676

Leptosphaerulina australis,

- penicillin amidase, 6-aminopenicillanic acid 5676

Leptosphaerulina briosiana,

- alfalfa 1006 9751
- ascospores, alfalfa 2393

Subject index

- Leptosphaerulina crassiasca**,
peanut 6193
- Leptosphaerulina trifoli**,
Egyptian clover 6186
sunflower 6301
- Leptospora**,
milk, pasteurisation 4236
- Leptospora pomona**,
Streptomyces orientalis 3082
- Leptospora vaccine**,
10424
- Leptosporus fissilis**,
oxygenated 5alpa-androstane
16beta-18-dihydroxylation 3325
- Leptostroma pinastri**,
Lophodermium pinastri 1133
- Leptothyrium pomi**,
apple post-harvest decay 1087
Rosaceae 5297
- Leptotrochita medicaginis**,
alfalfa 2669
Medicago 7669
- Lespedeza capitata**,
nodulation/nitrogen fixation 2878
- Lethal toxin**,
Bacillus cereus, food 7078
- Lethal yellowing**,
coconut 10648
coconut palm 8687
mycoplasma-like organism, coconut palm 1054
mycoplasma-like organism, Pritchardia
pacificae, oxytetracycline 8675
mycoplasma-like organism, Pritchardia
thurstonii, oxytetracycline 8675
mycoplasma-like organism, Trachycarpus
fortunei, oxytetracycline 8675
mycoplasma-like organism, Veitchia merrillii,
oxytetracycline 8675
- Lethal yellowing disease**,
coconut palm 1922
coconut palm, oxytetracycline, fruit 403
- Lethality-Fourier number method**,
canned food 9658 9659 9660
- Lettuce**,
beet western yellows virus, carbendazim 2819
Bremia lactucae 4367 5376
Bremia lactucae, fungicide 4391 5426
coliforms, antibiotics resistance 6028
Escherichia coli, antibiotics resistance
6028
lettuce mosaic virus/cucumber mosaic virus
317 7921
poliovirus, sewage sludge/effluent soil
disposal 4561
resistance, Bremia lactucae 4467 4468 7956
rhizosphere, vesicular-arbuscular mycorrhiza
7257
Sclerotinia minor 3514
Sclerotinia sclerotiorum 2070
Septoria lactucae, benomyl 6371
Stemphylium botryosum post-harvest decay,
fungicide, 4438
- Lettuce mosaic virus**,
lettuce 317 7921
- Leucine**,
Arthrobacter 3230
Brevibacterium 3230
mushroom protein 5236
Mycobacterium 3230
Swiss stone pine rhizosphere microorganisms
7229
- L-Leucine**,
Brevibacterium lactofermentum 4038
Corynebacterium glutamicum 4038
- L-Leucine-alpha-ketoglutarate transaminase**,
Acetobacter suboxydans 5959
- Leucine dehydrogenase**,
Bacillus natto 9413
- Leucine/isoleucine/valine-binding protein**,
Escherichia coli, structure 7605
- Leucomycin**,
Streptomyces kitasatoensis, C-13 nuclear
magnetic resonance spectroscopy 10376
Streptomyces kitasatoensis, cerulenin 9139
- Leucomycin A1**,
derivatives, niddamycin, antibacterial agent
4817
Leucomycin A3, Streptomyces kitasatoensis,
glucose 10377
niddamycin, antibacterial agent 4817
Streptomyces kitasatoensis 6640
- Leucomycin A3**,
3809
derivatives, niddamycin, antibacterial agent
4817
Leucomycin A1, Streptomyces kitasatoensis,
glucose 10377
maridomycin II, carbomycin A, carbomycin B,
Streptomyces hygroscopicus 10331
niddamycin, antibacterial agent 4817
Streptomyces kitasatoensis 6640
- Leuconostoc oenos**,
malo-lactic fermentation, wine 1704
- Leuconostoc**,
cassava fermentation, garri 8451
cheese 152
cultured butter 6049
dried/frozen food 131
enzymes, food 134
fermented meat product 6082
frozen concentrated orange juice, radiometry
9608
hard cheese 6057
Swiss cheese/milk/whey/butter 162
- Leuconostoc citrovorum**,
antibiotic A23187 2239
cheese 7004
malo-lactic fermentation, wine 1704
preservation 7358
soybean cheese spread 9599
- Leuconostoc cremoris**,
Cheddar cheese 8499
cheese, citrate 6047
fermented milk products 6056
milk 139
tyrosine decarboxylase/histidine
decarboxylase 8493
- Leuconostoc dextranicum**,
preservation 7358
sheep cheese 6066
- Leuconostoc mesenteroides**,
beef 7014
beet sugar, iodoacetone bacteriostat 2616
beverage, natamycin 6130
dextran, rye germ culture medium 4953
dextranucrase 837 2463
lysine assay, protein hydrolysate 5204
methionine assay, protein hydrolysate 5204
methionine/cysteine/cystine assay, cowpea
10567
pork, microwave/oven cooking 6380
soybean idli fermentation 7027
- Leuconostoc oenos**,
malo-lactic fermentation, wine 9516
- Leucopaxillus**,
biological control, Phytophthora cinnamomi
1123
- Leucopogon ericoides**,
Phytophthora cinnamomi 8597
- Leucopogon virgatus**,
Phytophthora cinnamomi 8596 8597
- Leucospermum cordifolium**,
Botrytis cinerea 5377
Phoma sorghina/Phoma glomerata 1935
- Leucosporidium scottii**,
esterase, cephalosporins 8132
- Leucothrix mucor**,
estuarine water/sediment, petroleum
degradation, numerical taxonomy 10109
oil degradation, mercury 4623

Subject index

- Leukaemia,**
 L-1210, carbanoyl mycophenolic acid
 ethyl ester 874
 L-1210, mycophenolic acid derivatives 873
- Leukaemia L-1210,**
 antibiotic 27,706 RP 4125
 antibiotic 05-3256-B 9456
- Leukaemia P-388,**
 antibiotic U-43,120 4126
- Leukocyte,**
 rabbit polymorphonuclear, *Pseudomonas*
aeruginosa phagocytosis, antibiotics 2998
- Leukocytosis-stimulating protein,**
Bordetella pertussis 4048
- Leupeptin,**
 human complement 5907
- Levan,**
Glucanobacter oxydans 8404
Streptococcus salivarius 2514
- Levansucrase,**
Glucanobacter oxydans, levan 8404
- Leveillula,**
 plant disease 4297
 powdery mildew, plants 5298
- Leveillula lanuginosa,**
 parsley 7926
- Leveillula leguminosarum,**
 plant disease 4297
- Leveillula taurica,**
 China aster 5299
 Jerusalem cherry 5299
 pepper, auxins 9952
 Umbelliferae 7906
 wire-plant 5299
- Levisticum,**
 fungicide 3569
- Levomoprazine,**
 assay, *Bacillus subtilis* 5840
- Levomycetin,**
 see Chloramphenicol
- Levopromazine,**
 antibacterial agent 8980
- Levorin,**
Actinomyces levoris 10379
Actinomyces levoris, streptomycin 10306
Actinomyces nodosus, sunflower oil cake meal
 10224
Candida 10378
Candida albicans 565
Candida albicans phosphatase 5645
Candida albicans, thermogenesis 2971
 optical rotation dispersion 9140
 resistance, *Candida albicans* 4639
Staphylococcus aureus, thermogenesis 2971
- Levoristatin,**
Actinomyces tropicalis + *Candida albicans*
 4809
- Levulose,**
 dextrose, *Streptomyces xylose isomerase* 7669
 immobilised dextrose isomerase, *Streptomyces*
olivochromogenes 1649
- LFA 2043,**
Cochliobolus sativus, wheat 5420
- Libanamycin,**
Streptomyces hygroscopicus 7423
- Lichen,**
 air pollution indicator 3841
 sulphur dioxide air pollution indicator 4985
 symbiosis 5876
- Lichenan,**
 degradation, *Bacillus pumilus* lichenanase
 852
- Lichenanase,**
Bacillus pumilus, barley glucan/lichenan
 degradation 852
- Lichesterol,**
Neurospora crassa, sterols 5647
- Ligated rabbit ileum,**
Vibrio parahaemolyticus enterotoxin 4285
- Light,**
Cephalosporium acremonium 4732
Choanephora cucurbitarum culture 3199
 microbial plant disease 4290
Penicillium chrysogenum 4732
Pseudoperonospora cubensis, cucumber 9860
- Light scattering,**
Salmonella typhi endotoxin 9737
- Lignin,**
 bacterial degradation 8459
 degradation, *Aspergillus niger*, mannanase
 1660
 degradation, bacteria, culture medium 1563
 degradation, *Coriolus versicolor* 419
 degradation, fungi 6403 9524
 degradation, *Phanerochaete chrysosporium* 419
 degradation, soil microorganisms 6982
 degradation, *Sporotrichum pulverulentum*,
 phenol oxidase 2052
 fungal degradation, cellulose pulp 1707
 fungi 5507
 Kraft, degradation, soil microorganisms 6982
 microbial degradation 4174
 mineral powder, road-building material,
 fungal degradation 8934
 model compound, microbial degradation 3367
 waste cellulose, *Trichoderma viride* cellulase
 7616
- Lignin-decomposing enzyme,**
 fungal, cellulose pulp 1707
- Lignite,**
 coal, bacterial degradation 10083
- Lignocaine,**
 antibacterial agent 6495
- Lignocellulose,**
 degradation, *Thermoactinomyces celluloseae*,
 protein 9345
 microbial degradation, soil, radioisotope
 technique 8868
 waste, microbial protein, animal feed 3242
- Lignocellulosic waste,**
 degradation, *Pleurotus ostreatus*, protein,
 cattle feed 10448
- Ligustrone A,**
Cercospora 7826
- Ligustrone B,**
Cercospora 7826
- Ligustrone C,**
Cercospora 7826
- Ligustrum japonicum,**
Microsphaera 318
- Ligustrum vulgare,**
 yellow mosaic virus 9886
- Lilac,**
Microsphaera alni, benomyl 10008
Microsphaera alni 8704
 resistance, *Microsphaera alni* 8704
- Lily,**
 water, *Dichotomophthoropsis nymphaearum* 4369
- Line,**
 hydrated, *Plasmodiophora brassicae*, crucifers
 2811
 Mosambi leaf crumpling virus 6243
 mycoplasma diseases 8662
Plasmodiophora brassicae, brussels sprout
 4503
 virus diseases 8662
Xanthomonas citri 1045 2723 6245
 yam post-harvest decay 7948
- Lime-rock,**
 fungi 5507
- Limit dextrinase,**
Aspergillus oryzae 3268
- Limonene,**
 degradation, soil *Pseudomonas* 5192
 derivatives, fungicide, plant protection
 2015
- Limonium sinuatum,**
 cucumber mosaic virus 330
 turnip mosaic virus 330

Subject index

Limulus amoebocyte lysate test,

- bacterial endotoxin 4017 5283 8575 8576
4273 7077
- bacterial endotoxin assay 7845
- bacterial endotoxin, drinking water 1818
- bacterial endotoxin, plasma,
spectrophotometry 3440
- bacterial endotoxin, quality control 7843
- bacterial endotoxin, quality control,
infusion solution 1817
- bacterial endotoxin, quality control,
vaccines 7846
- bacterial endotoxin, quality control,
vaccines, sera 7844
- bacterial endotoxin, wastewater 1818
- microorganisms assay 10551
- tritiated *Escherichia coli*, endotoxin 9725

Limulus polyphemus test,

- bacterial endotoxin 243

Linalool,

- degradation, soil *Pseudomonas* 5192

Lincomycin,

- 7-chlor-7-desoxy-, *Clostridium perfringens*
5628
- + amikacin 4794
- Actinomyces israelii* 7369
- Actinomyces roseolus* 619 1373 8131 10263
- alpha-thiolincosaminides 8166
- antibacterial agent 6546 10241
- antibacterial agent/resistance 1302
- Arachnia propionica* 7369
- assay 9033
- assay, *Bacillus stearothermophilus* 4719
- Bacteroides fragilis* 2166
- beta-haemolytic *Streptococcus* 5633
- bile system microflora 2995
- chloro-, assay, *Bacillus stearothermophilus*
4719
- Enterobacteriaceae* 6557
- Escherichia coli* 1304
- Escherichia coli*, enterotoxin induction 5291
- labelled, *Streptomyces* 8165
- milk, assay, *Sarcina lutea*/*Bacillus subtilis*
5206
- Mycoplasma hypopneumoniae* 5436
- Pasteurella multocida* 6548
- pig feed, swine dysentery 954
- Proteus* 1304
- Pseudomonas aeruginosa* 1304
- residues, animal feed, assay 2227
- resistance, *Clostridium perfringens* 1208
- resistance, *Staphylococcus aureus* 7302
- resistance, *Staphylococcus hyicus* 9045
- resistance, *Streptococcus agalactiae*, R
factor 3672
- resistance, *Streptococcus faecalis* 10127
- resistance, *Streptococcus faecalis*, R factor
10121
- resistance, *Streptococcus pyogenes* 10128
- Staphylococcus* 1304
- Staphylococcus aureus* 2169 3002
- Staphylococcus hyicus* 3002 9045
- Streptococcus faecalis* 3003
- Streptococcus mutans* 552
- Streptomyces lincolnensis*, fast neutron
irradiation 9027
- Streptomyces lincolnensis*,
3-methylthioacrylic acid 4035
- Streptomyces vellosus*, antibacterial agent
10318
- Vibrio cholerae*, cholerae induction 5291
- vitamins/nicotinamide/p-aminobenzoic acid
2991

Lincosaminides,

- alpha-thio-, Lincomycin 8166

Lindane,

- degradation, soil microorganisms 10077

Linoleic acid,

- Aspergillus flavus*, aflatoxins 9701
- Candida lipolytica*, acetyl-CoA carboxylase
4061
- Epilobium nigrum* 1626
- Scleroderma aurantium* 4033
- Tricholome portentosum* oil 6827

Linolenic acid,

- Epilobium nigrum* 1626

Linseed,

- see Flax
- resistance, *Oidium lini* 1987

Linum usitatissimum,

- Alternaria linicola* 9865
- Cercospora linicola* 305
- Fusarium oxysporum*, soil fungistasis 10053
- Melampsora lini* 6266
- Melampsora lini*, fungicide 8201
- pathogenic fungi 4366
- resistance, *Melampsora lini* 360
- resistance, *Oidium lini* 1987
- resistance, *Rhizoctonia solani* 8693
- Rhizoctonia solani* 8693

Linuron,

- degradation, *Bacillus sphaericus*, aryl
acylamidase 901
- river water, microbial degradation 6023
- soil microorganisms 2087 7279 10081

Lipase,

- + *Pseudomonas fluorescens* phospholipase C,
milk 6998
- Aspergillus niger* 853
- Aspergillus niger*,
3,5-diacetoxycyclopent-1-ene hydrolysis 889
- Bacillus subtilis*, Cheddar cheese 157
- bacterial, milk 6997
- Bacteroides* 3249
- Candida cylindracea*, racemic alcohol
esterification 8369
- Candida lipolytica*, cheese-like flavour 4204
- Candida paralipolytica* 7635
- Chromobacterium viscosum*, assay 1476
- fungus, blue cheese 6061
- Geotrichum candidum* 853
- Humicola lanuginosa* 8370
- immobilization, microorganisms 2
- lactic acid bacteria, cheese 7003
- microbial, Cheddar cheese 7006
- microbial, food 134
- microbial, triglyceride assay 3290
- Micrococcus freudenreichii*, Cheddar cheese
157
- Oospora lactis* 9414
- Penicillium caseicolum* 5960
- Penicillium cyclopium* 853
- Phycomyces blakesleeana* 4096
- Phycomyces nitens* 4096
- Pseudomonas fluorescens* 1658 5076
- Pseudomonas fluorescens*, Cheddar cheese 5225
- Pseudomonas fragi*, Cheddar cheese 157 5225
- Rhizopus delemar* 853
- Saccharomyces cerevisiae* 3323
- Sarcina lutea*, Cheddar cheese 157
- Serratia marcescens*, Cheddar cheese 157
- Staphylococcus*, agar plate tests 2417
- Staphylococcus aureus*, Cheddar cheese 157
- thermophilic fungi 9350

Lipiamycin,

- Actinoplanes deccanensis*, antibacterial agent
2186

Lipid,

- antibiotics 6543
- Candida* 107, continuous culture 6006
- Candida*, continuous culture 6007
- Candida lipolytica*, alkane/glucose 10102
- Candida stellatoidea*, sodium chloride 9324
- Candida tropicalis*, alkane/glucose 10102
- culture medium, *Pleurotus sapidus* 2394

Subject index

Lipid (Contd),

- Escherichia coli*, tetracycline resistance 7314
- hydroxypalmitoyl lysine, *Agrobacterium tumefaciens* 5151
- Micrococcus*, alkane 10098
- ornithine-containing, *Gluconobacter cerinus* 3348
- Quemanssiella mucida*, mucidin 4813
- Paecilomyces persicinus*, hexadecane 486
- Penicillium roqueforti*, cheese 9566
- Penicillium rubrum*, rubratoxin 9720
- phospho-, mannophosphoinositide, *Nocardia asteroides* 2520
- Salmonella enteritidis* cell wall, fatty acid, stable gas-liquid chromatography column 6787
- sugar, *Pseudomonas*, paraffin, activated sludge 3665
- yeast, culture 9479
- yeast, hydrocarbon, leather fat liquoring composition 3666

Lipid A,

- Fusobacterium nucleatum* lipopolysaccharide 3330

Lipid solvent,

- mycophage 3182

Lipoamide dehydrogenase,

- Escherichia coli*, immobilisation 8371
- Escherichia coli* pyruvate dehydrogenase 9433

Lipoate acetyltransferase,

- Escherichia coli* pyruvate dehydrogenase 9433

Lipolysis,

- pork fat, *Micrococcus* 930
- psychrotrophic bacteria, milk 142

Lipolytic enzyme,

- Candida* 6815

Lipomyces,

- S-adenosylmethionine/methylthioadenosine 871 1487

Lipomyces starkeyi,

- culture, ethanol 781

Lipopolysaccharide,

- Bordetella parapertussis* 1819
- Bordetella pertussis* 1819
- Brucella* 3444
- Chromatium vinosum* 4120
- Erwinia carotovora* 5112
- Escherichia coli* 1682
- Fusobacterium nucleatum*, Lipid A 3330
- C antigen, *Bacteroides fragilis* 63
- Pasteurella multocida* immunogenic fraction 5137
- Proteus mirabilis*, antitumour agent 3337
- Pseudomonas aeruginosa* 6934
- Pseudomonas aeruginosa*, erythrocytic diagnostic agent 3331
- Pseudomonas aeruginosa* vaccine 10427
- Pseudomonas morsprunorum*, cherry/Bean/tobacco 2519
- Vibrio cholerae*, fatty acids 5987
- Yersinia enterocolitica*, endotoxin 4286
- Yersinia enterocolitica*, sugars 6935
- Yersinia pseudotuberculosis* 64

Lipopolysaccharide-protein,

- Erwinia chrysanthemi*, *Pseudomonas syringae*, tobacco 3594

Lipoprotein,

- Escherichia coli* outer membrane, chloramine T iodination labelling 8274

Liposome,

- lecithin-cholesterol, culture medium, *Mycobacterium* 2381

Lipoxygenase-like enzyme,

- Fusarium oxysporum* 2477 2478

Liquid,

- aqueous, toxicity, microbial assay 2364
- sampling apparatus 764
- sterilisation 6537

Liquidambar styraciflora,

- Glomus mosseae* mycorrhiza, soil nitrogen 4527

Liriodendron tulipifera,

- resistance, *Lenzites trabea* 420

Listeria,

- bacteriocins 2439
- esculin hydrolysis 1562
- milk, pasteurisation 4236
- penicillins 1347

Listeria denitrificans,

- perennial ryegrass, pyloplane, *Drechslera dictyoides* 7889

Listeria monocytogenes,

- acriflavine isolation medium 10569
- ampicillin 5671
- antibiotics 5629
- chicken manure, composting 8222
- econazole 2974
- endotoxin 6154
- enrichment medium, differentiation medium 10568

freeze-thawing, transmission

- electron/scanning electron microscopy 4704
- 9-hydroxvellipticine 1229

miconazole 2974

monocytosis-producing activity 5140

penicillin G + gentamicin 5641

preservation 4703

beta-ursolic acid 6532

Lithium disilicate,

- fungal degradation 905

Litmomycin,

- avian myeloblastosis virus DNA 8187

Litmus milk agar,

- Propionibacterium* identification medium 10584

Litter,

- broiler-house, silage, sheep feed 7789
- forest soil, macronutrients, microorganisms 7994
- leaf, microbial degradation 9523
- leaf, soil fungi, microbial culture filtrates 10051

poultry, Salmonella, direct

culture/immunofluorescence 2387

poultry, silage, cattle/sheep feed 9637

Scots pine leaf, urea/urine, fungi 2035

Litter, poultry,

- see Poultry litter

Little leaf,

- mycoplasma, brinjal, resistance 8829
- mycoplasma, brinjal, tetracycline 8829

Little leaf disease,

- brinjal 4375
- brinjal, resistance 5409
- mycoplasma-like organism, eggplant 5372
- Solanum pubescens* 3529
- Spiroplasma citri*, orange 7141

LIV-binding protein,

- Escherichia coli*, structure 7605

Liver,

- beef, refrigerated/frozen, *Clostridium* perfringens 7766
- pork, refrigerated/frozen, *Clostridium* perfringens 7766

Liver sausage,

- sterilisation 1793

Lividomycin,

- 2171 9501
- antibacterial agent 2969 3755
- resistance, *Mycobacterium tuberculosis* 6482

Lividomycin A,

- derivatives, antibacterial agent 6641

Lividomycin B,

- deosaminylividomycin B 10380
- derivatives, antibacterial agent 1422 6641

LL-Z1271alpha,

- Acrostalagmus*, terpenoid 5156

Subject index

Locust,
 Erysiphe trifolii 1002

Lodderomyces,
 beverage proportioning pumps 4225

Loganberry,
 post-harvest decay, fungi 6321

Lolium,
 + *Rhizobium*, nitrogen fixation, acetylene
 reduction assay 7272
 Claviceps purpurea 4317

Lolium hybridum,
 Urocystis agropyri 4320
 Urocystis tritici 4320

Lolium multiflorum,
 barley yellow dwarf virus 6225
 Drechslera 285
 Erysiphe graminis 285
 fungal diseases 8641
 Fusarium nivale 8641
 Helminthosporium 8641
 Helminthosporium dictyoides 7875
 Helminthosporium siccans 7875
 Leptosphaeria nodorum 6236
 Puccinia coronata 285
 Puccinia graminis 4334
 ryegrass mosaic virus 285
 ryegrass mosaic virus, *Abacarus hystrix* 6226
 ryegrass mosaic virus, meristem tip culture
 6413
 ryegrass mosaic virus, mite 1036
 silage fermentation, formalin/fatty acids
 2601
 silage, formic acid 207

Lolium perenne,
 barley yellow dwarf virus 6225
 Corticium fuciforme 8641
 Drechslera 285
 Drechslera dictyoides, *Phylloplane* bacteria
 7889
 Erysiphe graminis 285
 fungal diseases 8641
 Fusarium culmorum 2708
 Fusarium nivale 2708
 Fusarium nivale + *Fusarium culmorum* 2708
 Helminthosporium 8641
 Helminthosporium dictyoides 7875
 Helminthosporium siccans 7875
 Puccinia coronata 285
 Puccinia graminis 4334
 rhizoplane microflora, chloropicrin 457
 ryegrass mosaic virus 285
 silage, formic acid 207
 soil 443 444
 Tilletia lolii 7890
 Urocystis agropyri 4320
 Urocystis tritici 4320

Lolium rigidum,
 Corynebacterium 9801

Lonar,
 Alternaria cucumerina, squash 382

Long smut,
 Tolyposporium ehrenbergii, sorghum 4346

Lonomycin,
 antibiotic DE-3936, *Streptomyces*
 hygroscopicus, antibacterial agent 2242
 Streptomyces ribosidicus, structure 7435

Loofah,
 witches' broom disease, leafhopper 319

Looper,
 alfalfa, *Trichoplusia ni* cell culture 4011
 cabbage, cell culture, *Autographica*
 californica nuclear polyhedrosis virus 4011

Loose smut,
 Ustilago avenae, oat 1877 4315 4320
 Ustilago nuda, barley 4315 8630
 Ustilago nuda, barley, furan-3-carboxamide
 derivatives 1112
 Ustilago nuda tritici, wheat, benomyl 2006
 Ustilago nuda tritici, wheat, carboxin 2006
 Ustilago nuda, wheat 2716 2717

Loose smut(Contd),
 Ustilago tritici, wheat 4315 6238
 Ustilago tritici, wheat, fungicide seed
 dressing 5440

Loosestrife,
 garden, cucumber mosaic virus 8705

Lophoderma sulcigena,
 + *Hendersonia acicola*, Corsican pine 2842

Lophodermella morbida,
 ponderosa pine 3611

Lophodermella sulcigena,
 Corsican pine 7236

Lophodermium,
 Corsican pine needles 1135
 pine 1129 1153
 Scots pine 1132 1137
 Scots pine needles 1135

Lophodermium mangiferae,
 mango 7140

Lophodermium pinastri,
 Corsican pine needles 1135
 culture, Scots pine 2841
 pine 1129 1131 1134 1153
 pine, culture 1136
 pine, fungicide 1146 1147
 pine, maneb 1148
 pine, plant protection 1151 1154
 pine, Plantifog 160 M 1149
 pine, resistance 1140
 red pine 1152
 red pine, fungicide 1145
 Scots pine 1129 1130 1131 1133 1134 1137
 1138 1142 1143 1152 1153
 Scots pine cones 1139
 Scots pine, fungicide 1145 1146 1147 1150
 8849
 Scots pine, maneb 1146 3612
 Scots pine needles 1135
 Scots pine, plant protection 1151 1154
 Scots pine, Plantifog 160 M 1149
 Scots pine, resistance 1128 1140 1141 1142
 1144

Lorvek,
 Phytophthora cinnamomi, Lawson cypress 8843

Lotononis bainesii,
 + *Rhizobium*, nitrogen fixation 6905
 Lectins, + *Rhizobium*, nitrogen fixation 8899

Lotus,
 Myrothecium verrucaria 6189

Lotus aff. decumbens,
 Myrothecium verrucaria 6189

Lotus corniculatus,
 + *Rhizobium*, nodulation, nitrogen fixation
 8907 9806
 Myrothecium verrucaria 6189

Lotus creticus,
 Myrothecium verrucaria 6189

Lotus hispidus,
 + *Rhizobium*, noodulation, nitrogen fixation
 9806

Lotus major,
 Myrothecium verrucaria 6189

Lotus pedunculatus,
 + antibiotics-resistant *Rhizobium*,
 nodulation, nitrogen fixation 10067

Lotus pusillus,
 Myrothecium verrucaria 6189

Lovage,
 fungicide 3569

Lovegrass,
 Sclerophthora macrospora 4635

LS 73-1038,
 Bremia lactucae, lettuce 5426

Lubimin,
 15-dihydro, fungi, potato 7967
 Phytophthora infestans, potato 1940 2793
 potato, fungi, 15-dihydrolubimin 7967

Lubricant,
 antibacterial agent, penicillins 3753

Subject index

- Lubrication oil,**
 - bactericide/fungicide 7288
- Lucenomycin,**
 - cyclic hemiketals, carbon-13 nuclear magnetic resonance spectroscopy 6567
 - hemiketal structure 5703
 - mass spectroscopy 7364
- Luciferase,**
 - Beneckea harveyi*, immobilization 2479
 - microbial 795
 - Photobacterium leiognathi* 9415
- Luffa acutangula,**
 - Sphaerotheca fuliginea* 1056
- Luffa cylindrica,**
 - Choanephora cucurbitarum*, culture, light 3199
 - Sphaerotheca fuliginea* 1056
 - witches' broom disease, leafhopper 319
- Lumbricus rubellus,**
 - Pithomyces chartarum*, pasture 2067
- Luminescence,**
 - bacterial ATP assay 5831
 - Beneckea harveyi* immobilized luciferase/NAD(P)H:FMN oxidoreductase, NADH/NADPH assay 2479
 - firefly, + bacterial ATP, antibiotics assay 10225
 - haem-containing microorganism 1546
 - microbial ATP, food/water 1548
- Luminescence sensor,**
 - luminescent microorganism 1547
- Luminescent microorganism,**
 - luminescence sensor 1547
- Luminol,**
 - haem-containing microorganism, luminescence 1546
- Luncheon meat,**
 - bacteria, shelf-life 6085
 - bacteriology 9578
 - microbial standards 7013
- Lupin,**
 - + *Rhizobium* 4581
 - + *Rhizobium lupini*, nitrogen fixation 5497
 - + *Rhizobium lupini*, nitrogen fixation, radioisotope assay 8908
 - + *Rhizobium*/seed treatment 445
 - acetylene reduction assay 2889
 - blue, *Bidens mottle virus* 4392
 - Fusarium avenaceum* 5304
 - Fusarium oxysporum* 5304
 - Fusarium oxysporum*, plant protection 6341
 - Fusarium solani* 5304
 - luteone, antifungal agent 3565
 - nodule, nitrogen fixation 2081
 - nodule, soil microorganisms 2888
 - Phytophthora cinnamomi*, hardwood bark compost 7960
 - Rhizobium lupini*, nodulation/nitrogen fixation 2887
 - white, luteone, antifungal agent 3565
- Lupin baiting,**
 - Phytophthora cinnamomi*, water 6798
- Lupinus,**
 - luteone, antifungal agent 3565
- Lupinus albus,**
 - luteone, antifungal agent 3565
- Lupinus angustifolius,**
 - + *Rhizobium*, nitrogen fixation 10069
 - + *Rhizobium*, nodulation 10068
 - acetylene reduction assay 2889
 - nodule, nitrogen fixation 2081
- Lupinus cosentinii,**
 - acetylene reduction assay 2889
- Lupinus luteus,**
 - acetylene reduction assay 2889
 - Rhizobium lupini*, nodulation/nitrogen fixation 2887
- Lupinus polyphyllus,**
 - + *Rhizobium* 4581
- Lupinus termis,**
 - + *Rhizobium*/seed treatment 445
- Luteone,**
 - antifungal agent, lupin 3565
- Luteoskyrin,**
 - food 7055
 - Penicillium* 975
 - Penicillium islanicum* 2631
- 2,4-Lutidine,**
 - degradation, soil coryneform 3364
- Lycium,**
 - extracts, antibacterial agent 10141
- Lycoplen-20-al,**
 - 1,4-nicehydro-1,2-dihydro-, *Rhodopseudomonas viridis* 4132
 - Rhodopseudomonas viridis* 4132
- Lycoperdon tabellatum,**
 - 8291
- Lycopersicon,**
 - Fusarium oxysporum* 6310
 - resistance, *Corynebacterium michiganense* 8779
 - resistance, *Fusarium oxysporum* 6310
- Lycopersicon chilense,**
 - potato virus M 324
- Lycopersicon esculentum,**
 - Agrobacterium tumefaciens*, hydrocarbons 5437
 - alfalfa mosaic virus 5393
 - Alternaria*, oxadiazolidine-3,5-dione derivatives 1115
 - Alternaria solani* 8740
 - Alternaria solani*, ethephon + fungicides 8805
 - Alternaria solani*, fungicide + polymeric film 374
 - Alternaria solani*, furan-3-carboxamide derivatives 1112
 - Alternaria solani*, phthalimide derivatives 2815
 - Alternaria solani*, plant protection 5392
 - Alternaria tenuis*, ethephon + fungicides 8805
 - beet curly top virus, beet leafhopper 9891
 - beet curly top virus, latex flocculation assay 10628
 - Botrytis cinerea*, fungicide 8804
 - Botrytis cinerea*, plant protection 5392
 - Botrytis cinerea*, rishitin 1961
 - Cladosporium fulvum* 8741 9901
 - Collectotrichum coccodes*, enzymes 6309
 - Collectotrichum coccodes*, pectin transeliminase 6308
 - Collectotrichum*, ethephon + fungicides 8805
 - Corynebacterium michiganense* 1960 9902
 - Corynebacterium michiganense*, plant protection 5392
 - cucumber mosaic virus 9899
 - cucumber mosaic virus RNA 5 7938
 - Cylindrocarpum tonkinense* post-harvest decay 7189
 - Fulvia fulva*, plant protection 5392
 - fungal fruit rot 3545
 - Fusarium lycopersici*, rishitin 8789
 - Fusarium oxysporum* 4426 6310 6311 9904
 - Fusarium oxysporum*, fungicide 378
 - Fusarium oxysporum*, beta-1-4-endo-glucanase 7942
 - Fusarium oxysporum*, nematode 8742
 - Fusarium oxysporum*, plant protection 5392
 - fusicoccin 9714
 - Geotrichum* 7181
 - Myrothecium roridum* post-harvest decay 4446
 - Phoma destructiva, plant protection 5392
 - Phomopsis cytochalsin* H 985
 - Phytophthora infestans* 4291 8740
 - Phytophthora infestans*, 2-aminopyrimidine derivatives 395
 - Phytophthora infestans*, diphenylamine derivatives 392

subject index

Lycopersicon esculentum(Contd),

Phytophthora infestans, imidazo-pyrimidine derivatives 4512
 Phytophthora infestans, oxadiazolidine-3,5-dione derivatives 1115
 Phytophthora infestans, plant protection 5392
 Phytophthora infestans, pyrazolium derivatives 3581
 Phytophthora infestans, 7-(beta-D-ribofuranosyl)- pyrrolo-pyrimidine derivatives 3589
 Phytophthora infestans, triazinedione derivatives 1119
 Phytophthora nicotianae, fungicide 4494
 Phytophthora parasitica, coumarins 4510
 Phytophthora, Phytophthora catorum, soil 6432
 Phytophthora, plant protection 5392
 pith rot, plant protection 5392
 post-harvest decay, Alternaria solani 5392
 post-harvest decay, Cyindroccladium scoparium 1976
 post-harvest decay, Phoma destructiva 5392
 post-harvest decay, Phytophthora 5392
 post-harvest decay, Pythium 5392
 post-harvest decay, Rhizopus 5392
 potato spindle tuber viroid, lyophilisation preservation 6540
 potato virus Y 6304 9899
 potato virus Y, plant protection 5392
 Pseudomonas solanacearum 8740
 Pseudomonas solanacearum, ethylene 3538
 Pseudomonas solanacearum, plant protection 5392
 Pseudomonas tomato 7180 9900
 Pseudomonas tomato, plant protection 5392
 Pseudomonas tomato, triazinedione derivatives 1119
 pulp storage silage, cattle feed 6104
 Pyrenochaeta lycopersici 6251 6312
 Pythium aphanidermatum 1085
 Pythium butleri 5394
 Pythium, plant protection 5392
 resistance, Alternaria 9946
 resistance, Alternaria solani 8780
 resistance, Cladosporium 9946
 resistance, Corynebacterium michiganense 1991 8779 9902
 resistance, Fusarium oxysporum 3561 6310 7959 8781 9946
 resistance, Fusarium oxysporum, nematode 1992
 resistance, Fusarium oxysporum, Pseudomonas solanacearum 9948
 resistance, Pseudomonas solanacearum, soil temperature 9947
 resistance, Pythium aphanidermatum 1086
 resistance, Rhizoctonia 8782
 resistance, Rhizoctonia post-harvest decay 9922
 resistance, Stemphylium 9946
 resistance testing, Pyrenochaeta lycopersici 361
 resistance, tobacco mosaic virus 5411 7941 9946
 resistance, Verticillium 9946
 resistance, Verticillium albo-atrum, phenolic compounds 337
 Rhizoctonia solani + nematode 9903
 Rhizoctonia solani, plant protection 5392
 rhizosphere, phosphate-solubilizing bacteria 8038
 Sclerotinia sclerotiorum, benomyl 306
 Sclerotinia sclerotiorum, plant protection 5392
 Sclerotium rolfsii 8740
 Sclerotium rolfsii, plant protection 5392 9951
 Septoria lycopersici 336

Lycopersicon esculentum(Contd),

Septoria lycopersici, plant protection 5392
 Stemphylium botryosum 7943
 Stemphylium solani, plant protection 5392
 stolbur, mycoplasma-like organism, tissue culture 367
 stolbur, tissue culture, plant protection 1098
 Synchytrium endobioticum 8743
 tobacco mosaic virus 1831 6307 7939 7940 7941 9899
 tobacco mosaic virus, plant protection 5392
 tomato leaf curl virus, whitefly, insecticide 1996
 tomato mosaic virus 2761
 tomato spotted wilt virus, plant protection 5392
 tomato yellow leaf curl virus 8739 9899
 Verticillium albo-atrum 1962 4427 9846 9905
 Verticillium albo-atrum, ethylene 6361
 Verticillium dahliae 437C 8744 8886 9904
 Verticillium dahliae + Meloidogyne javanica 4428
 Verticillium dahliae, plant protection 5392
 vesicular-arbuscular mycorrhiza 4570
 virus 2657
 virus disease 335
 Xanthomonas vesicatoria 6249 8740
 Xanthomonas vesicatoria, copper compound 6226
 Xanthomonas vesicatoria, plant protection 5392
Lycopersicon peruvianum,
 resistance, tobacco mosaic virus 5411
Lymecycline,
 Brucella 742C
Lymphocytic choriomeningitis virus,
 murine, antiviral agent 2122
Lymphocytosis stimulating factor,
 Bordetella pertussis 3443
Lympholeukemia L-5178,
 antibiotic PSX-1 5996
Lyophilisation,
 10218
 Actinomyces parvulus preservation 7357
 Armillaria mellea, wood, scanning electron microscopy 6400
 bacteria 541
 Candida utilis 2159
 Ceratocystis ulmi, wood, scanning electron microscopy 6400
 cottage cheese, preservation 8542
 dairy starter bacterial culture 922
 Fomes fomentarius, wood, scanning electron microscopy 6400
 food preservation 6811 9653
 fungi 545 4707
 Fusarium preservation 7584
 interferon preservation 9017
 Lactobacillus acidophilus preservation, gelatine capsule 7359
 Lactobacillus bulgaricus preservation, gelatine capsule 7359
 Merulius lacrymans, wood, scanning electron microscopy 6400
 Piptoporus betulinus, wood, scanning electron microscopy 6400
 potato spindle tuber viroid preservation 6540
 preservation, bacteria 542
 preservation, Lactobacillus bulgaricus 543
 preservation, Mycobacterium 544
 pseudorabies virus preservation 1287
 rapid freezing apparatus 540
 Saccharomyces cerevisiae 2983
 Stereum hirsutum, wood, scanning electron microscopy 6400
 Streptococcus diacetylactis preservation, gelatine capsule 7359

Subject index

Lymphilisation(Contd),

- Streptococcus lactis preservation, gelatine capsule 7359
- Streptococcus thermophilus preservation, gelatine capsule 7359
- Trametes fragrosa, wood, scanning electron microscopy 6400
- yeast 2159

Lymphilised cell wall,

- Bacillus megaterium 5016
- Saccharomyces cerevisiae 5016

Lymphilised contagious bovine peripneumonia vaccine,

- preservation 7460

Lymphilised culture medium,

- microbial 750

Lymphilised lactic acid bacterium,

- chicken feed 6094

Lymphilised propionic acid bacterium,

- chicken feed 6094

Lymphilised Saccharomyces cerevisiae,

- food/animal feed 7726

Lymphilised vaccine,

- residual moisture evaluation, Karl Fischer method 656

Lysimachia vulgaris,

- cucumber mosaic virus 8705

Lysin,

- Clostridium perfringens, antibacterial agent 7687

Lysine,

- + Saccharomyces cerevisiae 6012
- assay, Leuconostoc mesenteroides, protein hydrolysate 5204
- Bacillus coagulans 6831
- Bacillus megaterium 6831
- Brevibacterium 3230
- Brevibacterium lactofermentum 1627 5895
- Corynebacterium glutamicum 5895
- degradation, Enterobacteriaceae, Nessler's reagent 4936
- Escherichia coli 5895
- food, assay, Escherichia coli 6992
- glycine 3230
- Lactobacillus acidophilus, fermented food 5205
- Lactobacillus bulgaricus, fermented food 5205
- Lactobacillus plantarum, fermented food 5205
- microbial, adsorption, ion exchange resin 7600
- microbial, semibatch culture 816
- Mycobacterium 3230
- Swiss stone pine rhizosphere microorganisms 7229

L-Lysine,

- Arthrobacter 817
- Brevibacterium 2422 9336
- Brevibacterium aminogenes 817
- Brevibacterium divaricatum 817
- Brevibacterium 817
- Brevibacterium immariophilum 817
- Brevibacterium lactofermentum 817 8320
- Brevibacterium roseum 817
- Brevibacterium saccharolyticum 817
- Brevibacterium + Trichosporan cutaneum 2423
- Corynebacterium acetooxidophilum 817
- Corynebacterium callunae 817
- Corynebacterium glutamicum 817 8320
- Corynebacterium herculis 817
- Corynebacterium lilium 817
- epsilon-N-hydroxylysine, Aerobacter aerogenes 9335
- Microbacterium ammoniaphilum 817
- Mycobacterium glutamicum 8320
- microbial 9334
- poly-, tobacco mosaic virus 3535
- Protaminobacter thiaminophagus 7601
- Saccharomyces cerevisiae 9337

Lysine decarboxylase,

- Erwinia 12

Lysis,

- low-temperature, Staphylococcus aureus 928

Lysocellin,

- cation selectivity 10381
- numbering system 1384

Lysiformin,

- vaccinia virus 6736

Lysogenic bacterium,

- Streptococcus starter, cheese 2574

Lysolipin,

- structure 7436

Lysostaphin,

- solid-phase radioassay, Staphylococcus aureus protein A 8288

Lysozyme,

- antibacterial agent 5547
- Bacteroides 3249
- immobilised 4125
- Staphylococcus, agar plate tests 2417

Lytic enzyme,

- Actinomyces cinerosus, Saccharomyces cerevisiae/Candida tropicalis/Rhodotorula 2954
- Actinomyces recifensis, antibacterial agent/antifungal agent 2480
- Oerskovia, yeast 3275
- phage 95-induced, Pseudomonas aeruginosa 2481
- Saccharomyces fragilis cell wall, Arthrobacter 9416
- Streptomyces griseus 827
- Thermoactinomyces vulgaris, yeast cell wall 32
- Trichoderma harzianum, Aspergillus nidulans protoplast 6822
- yeast cell wall, Oerskovia beta-1,3-glucanase 9392
- yeast, flavobacterium dormitator endo-beta-1,3-glucanase 2466

Lyubimin,

- potato, microorganisms 4495
- potato, Phytophthora infestans, streptomycin 3525

Maackia,

- Helminthosporium carbonum 4496 4497
- Helminthosporium carbonum, chickpea 6348
- red clover, Sclerotinia sclerotiorum/Botrytis cinerea 1846
- Stemphylium botryosum 4496 4497
- Stemphylium sarcinaeforme 4496 4497

Macadamia,

- Phytophthora cinnamomi 1903

Macadamia integrifolia,

- Kretschmaria clavus 5358
- Phytophthora cinnamomi 1903

Macaroni product,

- Staphylococcus aureus 2591

Macerase,

- Aspergillus awamori 5082
- Aspergillus foetidus 5082

Macerating enzyme,

- Geotrichum candidum, vegetable protein 422

Machinery mould,

- Geotrichum candidum, food 8466
- Geotrichum, canned fruit/vegetable hygiene 9593

Macchupo virus vaccine,

- 2279

Mackerel,

- Indian, gamma-irradiation preservation 424
- 4245
- salted, microbiology 934

Subject index

- ackinawite,**
Desulfovibrio desulfuricans, jarosite,
Thiobacillus ferrooxidans, soil 2088
pyritization, Desulfovibrio desulfuricans,
soil 6456
- acrocina,**
tylosin, Streptomyces fradiae 6662
- acrolide antibiotic,**
resistance, bacteria 1199
Streptococcus faecalis 3003
- acrolide antibiotics,**
+ protein SP127, Pseudomonas aeruginosa 8334
8335
resistance, Staphylococcus aureus 7310 7311
- acromomycin,**
bactericide 9141
- acromonomycin,**
Streptomyces acromomyceticus, antitumour
antibiotic 1691
- acrophage,**
culture, Mycobacterium leprae 3181
- acrophoma,**
cacao 3506
- acrophomina,**
bean seed 4301
sesame phylloplane 1949
- acrophomina phaseoli,**
captan tolerance, amino acids 2922
beta-galactosidase 28
jute seed, seed dressing fungicide 2825
mercury tolerance, amino acids 2922
Parthenium hysterophorus extract 2932
soil 8883
soil, plant disease 6418
soybean 9769
- acrophomina phaseoli, (M. phaseolina),**
see also Rhizoctonia bataticola
- acrophomina phaseolina,**
corn 6214 8635
cotton 1924
jute 316
melanin-like compound, soybean 2683
oil palm kernels 4220
papaya 2725
papaya, fungicide 2802
peanut 6192
endo-pectate lyase 5084
pectic enzymes 5084
endo-pectin lyase 5084
endo-polygalacturonase 5084
endo-polymethylgalacturonase 5084
sesame 1083
sesame, pectic enzymes 5084
soil 6430 8921
soybean 1016 6196
sunflower 333 4422
2-thiocyanomethylthiobenzothiazole 5417
tridemorph 5417
- acroptilium atropurpureum,**
+ Rhizobium, nitrogen fixation, nitrate 8027
+ Rhizobium, nitrogen fixation, nitrogenase
5494
+ Rhizobium, nodulation 446
cucumber mosaic virus 257
Oidium 5305
potato virus Y 5305
Uromyces appendiculatus 5305
- acroptilium bracteatum,**
Oidium 5305
potato virus Y 5305
resistance, potato virus Y 5305
resistance, Uromyces appendiculatus 5305
- acroptilium lathyroides,**
bean common mosaic virus 1845
cucumber mosaic virus 257
Oidium 5305
resistance, Erysiphe polygoni 2775
resistance, potato virus Y 5305
resistance, Uromyces appendiculatus 5305
- Macrosiphum avenae,**
barley yellow dwarf virus, barley 4322 7119
- Macrosporium,**
8291
- Macrosporium solani,**
potato, rishitin/lyubimin 4495
- Macroretrolide antibiotics,**
Botrytis cinerea 4669
- Macrotyloma axillare,**
+ Rhizobium, nodulation 446
- Madumycin,**
Actinomadura flava 4810
- Madurella mycetomi,**
econazole 2974
miconazole 2974
- Magnamycin,**
Streptomyces halstedii 10362
- Magnaporthe salvinii,**
295
rice 5331
- Magnesiumid,**
-related tetramic acid derivatives,
antibacterial agent 8976
Pseudomonas magnesorubra, antibacterial
agent 3810
- Magnesium,**
Escherichia coli phosphatase, zinc 6910
- Magnesium chloride,**
plant viruses 2397
- Magnetic separation,**
microorganisms 4922
- Magnetite,**
microorganism immobilisation 8305
poliovirus, wastewater 3892
poliovirus, water 3892
- Mahali disease,**
Phytophthora arecae, arecanut 3506
- Mahogany,**
Fomes durissimus 2849
Fomes durissimus, culture 2042
- Mahonia,**
extracts, antibacterial agent 10141
Puccinia graminis 4368
- Mahonia aquifolium,**
Cumminsia mirabilissima 4368
extracts, antibacterial agent 10141
- Maintenance,**
Xanthomonas campestris 7360
- Maize,**
see also Corn
cereal chlorotic mottle virus 7117
Diplodia maydis 1019
fungal diseases, diallate 269
Fusarium moniliforme 4332
Helminthosporium turcicum 276
Pseudomonas 4316
Pseudomonas syringae, syringomycin 7864
seed, Phosphobacterium fertilizer 3629
viral stunting disease 7122
- Maize chlorotic dwarf mosaic virus,**
+ maize dwarf mosaic virus, corn 6213
- Maize chlorotic dwarf virus,**
corn 1868 5321 8631
corn, insecticide 364
corn, johnsongrass 5320
corn stunt disease complex, corn 7881
corn, tolerance 357
johnsongrass 8631
- Maize dwarf mosaic virus,**
+ maize chlorotic dwarf mosaic virus, corn
6213
corn 1867 1868 5321 5322 8631
corn, insecticide 364
corn, johnsongrass 5320
corn, resistance 5322 5407
corn, resistance testing 7196
corn, tolerance 357
Eragrostis trichodes 1867
johnsongrass 8631

Subject index

Maize dwarf mosaic virus(Contd),

- Muhlenbergia frondosa 1867
- Muhlenbergia mexicana 1867
- Panicum virgatum 1867
- Spartina pectinata 1867
- Sporobolus asper 1867

Maize foliar ring mosaic virus,

- corn 9779

Maize mosaic virus,

- corn, electron microscopy 8632

Maize rough dwarf virus,

- corn, leafhopper 9781
- corn, plant protection 9780

Mal secco,

- Phoma tracheiphila, Citrus, DL-p-fluorophenylalanine 9975
- Phoma tracheiphila, Citrus, plant protection 9833
- Phoma tracheiphila, lemon 9834
- Phoma tracheiphila, lemon, plant protection 9833
- Phoma tracheiphila phytotoxin, lemon 9835
- Phoma tracheiphila, sour orange, DL-p-fluorophenylalanine 9975

Malabar nut tree,

- Alternaria alternata 1837
- Botryodiplodia theobromae 1837
- Chaetomium globosum 1837
- Colletotrichum capsici 1837
- Drechslera speciferum 1837
- Nigrospora oryzae 1837
- Phomopsis pustulata 1836

Malachite green,

- Rappaport's medium, Salmonella 5852

Malaoson,

- microbial degradation, soil 4599

Malate dehydrogenase,

- Candida albicans 5914

Malathion,

- degradation, salt-marsh bacteria 6413
- estuarine water bacteria 4884
- Fusarium graminearum, zearalenone 2636
- microbial degradation 9527
- mycorrhizal fungi 8917
- Phytophthora infestans, potato 4501

Malbranchea pulchella,

- Agaricus bisporus culture 9602
- enzymes 9350

Maleic acid,

- antiviral agent, plant protection 9984

Maleic anhydride,

- antiviral agent, plant protection 9984

Maleic imide,

- derivatives, fungicide, plant protection 393

Maleimycin,

- Streptomyces showdoensis 5745

Malformin,

- assay, mung bean 4811
- enantio-[1-valine]-, antibacterial agent 3692 4655
- mass spectrum 1423

Malformin C,

- Aspergillus niger 233
- Aspergillus niger, antibacterial agent 7068

Malic acid,

- Aspergillus niger 3698
- Aspergillus terreus 3698
- Vibrio parahaemolyticus 1763

L-Malic acid,

- malic acid decarboxylase, immobilised
- Lactobacillus casei 7636
- Paecilomyces varioti 9328
- Paracolobactrum aerogenoides 9329

Malic acid decarboxylase,

- immobilised Lactobacillus casei 7636

Mallotus japonicus,

- Erwinia mallotivora 3515

Mallotus ricinoides,

- mycorrhiza 8840

Malo-lactic fermentation,

- Leuconostoc oenos, wine 1704
- wine 9516

Malonic acid,

- derivatives, antibacterial agent/antifungal agent 9007

Malt,

- mycoflora, beer gushing 5167
- proteolytic, Bacterium delbureckii 1698

Maltase,

- Aureobasidium pullulans, paint film degradation 4177
- Bacillus 4097
- Cephalosporium sacchari, sugarcane 4347
- Clostridium chauvoei 4098
- Clostridium septicum 4098
- Clostridium sphenoides 4098
- Clostridium sporogenes 4096

Malting,

- waste treatment 1460

Maltitol,

- antibacterial agent/antifungal agent 5593

Malto-dextrin,

- low D.E., starch hydrolysis, bacterial alpha-amylase 6932 6933

Maltose,

- Bacillus cereus beta-amylase/pullulanase 2453 2454
- gluconic acid, Rhizopus delemar glucoamylase + Aspergillus niger glucose oxidase + Aspergillus niger gluconolactonase 6892
- Streptomyces amylase 15

Maltose permease,

- Clostridium chauvoei 4098
- Clostridium septicum 4098

Maltotetraose,

- Bacillus cereus beta-amylase/pullulanase 2454

Maltotriose,

- Bacillus cereus beta-amylase/pullulanase 2454

Malus,

- apple proliferation, mycoplasma-like organism 4361
- apple stem grooving virus 6239
- Armillaria mellea, plant protection 7136
- Aspergillus niger post-harvest decay 8748
- Clitocybe tabescens, plant protection 7136
- Corticium galactinum, plant protection 7136
- decline 6239
- Erwinia amylovora 297
- Erwinia amylovora phage 5342
- Erwinia amylovora, streptomycin resistance 2822
- Gloeosporium 4292
- Gloeosporium album 7900
- Gloeosporium perennans 7900
- microbial diseases, resistance 3553
- Nectria galligena 7137
- Nectria galligena post-harvest decay, antifungal agent 5396
- Penicillium expansum post-harvest decay 5397
- Penicillium expansum post-harvest decay, fungicide 8749
- Phomopsis mali post-harvest decay 6317
- Phytophthora cactorum, plant protection 7136
- Phytophthora cambivora, plant protection 7136
- Podospaera leucotricha, diphenyl pyrazolium derivatives 1114
- Podospaera leucotricha 4291
- Podospaera leucotricha 4290 4292
- Podospaera leucotricha, 2-aminopyrimidine derivatives 395
- Podospaera leucotricha, benomyl + oil adjuvant 2791
- Podospaera leucotricha, fungicide 1101 2795 2796

Subject index

Malus (Contd).

Podosphaera leucotricha, imidazo-pyrimidine derivatives 4512
Podosphaera leucotricha, tri-2-norbornyltin derivatives 6363
Podosphaera leucotricha, triazinedione derivatives 1119
Podosphaera leucotricha, triforine 3586
Podosphaera leucotricha, diphenylamine derivatives 392
 post-harvest decay, antifungal agent 5396
 post-harvest decay, *Leptothyrium pomi* 1087
 post-harvest decay resistance, phenolic compounds 343
 post-harvest decay, *Rhizopus arrhizus*, fungicide 1965
 post-harvest decay, *Trichothecium roseum* 1088
 proliferation disease, mycoplasma-like organism, fluorescence microscopy 1047
 replant disease 8660
 resistance, *Venturia inaequalis* 4454 5347
Sclerotium rolfsii, plant protection 7136
Spiloea pomi conidia, *Venturia inaequalis* 1898
 tomato ringspot virus 6239 9824
Trichothecium roseum post-harvest decay 7184 7185
Trichothecium roseum post-harvest decay, trichothecine, trichothecolon 8750
 union necrosis 6239
Venturia inaequalis 1899 2718 2719 4290 4291 4292 5345 5346 5347 9825
Venturia inaequalis, 2-aminopyrimidine derivatives 395
Venturia inaequalis, benomyl + oil adjuvant 2791
Venturia inaequalis, benomyl tolerance 5431
Venturia inaequalis, benzimidazole resistance 398
Venturia inaequalis, benzimidazole tolerance 3571 7213 9980
Venturia inaequalis, diphenyl pyrazolium derivatives 1114
Venturia inaequalis, fungicide 2795 2796
Venturia inaequalis, thioallophanate derivatives 391
Venturia inaequalis, tri-2-norbornyltin derivatives 6363
Venturia inaequalis, triforine 3586
 virus 296
Xylaria mali, plant protection 7136
Zygophiala jamaicensis 8598

Malus floribunda,
 resistance, *Gymnosporangium juniperi-virginianae* 6338

Malus prunifolia,
 resistance, *Gymnosporangium juniperi-virginianae* 6338

Malus pumila,
Erwinia amylovora 5343 5344
Erwinia amylovora, streptomycin 2028
 post-harvest decay, *Penicillium claviforme* 1967
 resistance, *Erwinia amylovora* 5343
 resistance, *Gymnosporangium juniperi-virginianae* 6338

Malus sylvestris,
Acremonium implicatum post-harvest decay 4431
Ceratocystis major post-harvest decay 4431
Nodulisporium hinnuleum post-harvest decay 4431
Podosphaera leucotricha 2664
Podosphaera leucotricha, pyrazolium derivatives 2812 4511
 resistance, *Gymnosporangium juniperi-virginianae* 6338
Venturia inaequalis, pyrazolium derivatives 2812 3581 4511

Malus toringo,

resistance, *Gymnosporangium juniperi-virginianae* 6338

Malustela aerea,
 gram phyllosphere, *Uromyces ciceris-arietini*, gram 3465

Malva crispa,
Thielaviopsis basicola 436

Malvaceae,
Phytophthora 6172
Pythium 6172
Thielaviopsis basicola 436

Mamestra brassicae,
 feed, fungicide 6117

Mammalian cell,
Corynebacterium diphtheriae exotoxin 5287 5288
Pseudomonas aeruginosa exotoxin 5287 5288

Mancozeb,
Botrytis allii, onion 6360
Botrytis cinerea, onion 6360
Botrytis squamosa, onion 6360
Premia lactucae, lettuce 4391
Curvularia trifolii, turfgrass 1873
 degradation, soil *Bacillus* 8923
Lophodermium pinastri, pine 1146 1151
Lophodermium pinastri, Scots pine 8849
Phytophthora infestans, potato 2008 4404
Puccinia arachidis, peanut 8612
Septoria tritici, wheat 1894
Stagonospora boltshauseri, bean 2671

Mandarin,
 citrus crinkly leaf virus, citrus infectious variegation virus 9830
 mycoplasma diseases 8662
 satsuma, *Penicillium digitatum*/*Penicillium italicum*/*Alternaria citri* post-harvest decay, fungicide DF-125 5400
 virus diseases 8662

Mandarin orange,
Colletotrichum gloeosporioides 2724
Geotrichum candidum post-harvest decay 4440
 Mosambi leaf crumbling virus 6243
Phytophthora nicotianae, fungicide 2724

L-Mandelate-4-hydroxylase,
Pseudomonas convexa 1659

Mandelic acid,
 degradation, *Pseudomonas convexa* 903

Manduca sexta,
Bacillus thuringiensis parasporal crystal 7080

Maneb,
 + zinc, *Sclerospora sorghi*, sorghum 1107
Alternaria alternata, Kadota fig post-harvest decay 9914
Diplocarpon rosae, rose 2806
Endocronartium harknessii, Scots pine 2039
 estuarine water bacteria 4884
 fungicide, plant protection 390 5427
Gnomonia leptostyla, black walnut 10016
Herpotrichia juniperi, pine 2840
Lophodermium pinastri, pine 1146 1148 1149 1151
Lophodermium pinastri, red pine 1145
Lophodermium pinastri, Scots pine 1145 1150 3612
Lophodermium pinastrum, pine 1154
Neovossia horrida, rice 9961
Phytophthora infestans, potato 2008
 seed treatment, *Phoma betae*, sugarbeet 8839
Septoria leucanthemi, Killian daisy 3570
Septoria tritici, wheat 9964
Stemphylium botryosum, lettuce post-harvest decay 4438
 zinc-, + ethephon, *Alternaria solani*/*Alternaria tenuis*/*Colletotrichum*, tomato 8805
 zinc-, *Puccinia graminis tritici*, wheat 8811
 zinc-, *Puccinia recondita tritici*, wheat 8811

Subject index

- Maneb(Contd),**
zinc-, *Septoria nodorum*, wheat 8811
- Maneb + zinc,**
Colletotrichum gloeosporioides/Ascochyta caricacae/Gloeosporium, papaya 2772
Herileia vastatrix, coffee 5422
Septoria avenae, wheat 4488
Septoria nodorum, wheat 4488
Septoria tritici, wheat 4488
- Manganese,**
concretion, soil bacteria 8932
ore, *Desulfovibrio baculatus*, sulphate reduction 5511
Saccharomyces carlsbergensis, beer wort 6972
Sphaerotilus discophorus 3659
tolerance, *Penicillium ochro-chloron* 8930
- Mangifera indica,**
Fusarium moniliforme 3495
Lophodermium mangiferae 7140
Phoma glomerata 9837
post-harvest decay 1970
post-harvest decay, *Hendersonia creberrima* 1090 1971
post-harvest decay, microorganisms 1089 9917
post-harvest decay, *Rhizopus arrhizus*, fungicide 1965
Ulocladium chartarum 6246
- Mangiferin,**
Fusarium oxysporum, safflower seed treatment 7592
- Mango,**
cannery waste, yeast 911
Fusarium moniliforme 3495
Lophodermium mangiferae 7140
Phoma glomerata 9837
post-harvest decay 1970
post-harvest decay, *Hendersonia creberrima* 1090 1971
post-harvest decay, microorganisms 1089 9917
post-harvest decay, *Rhizopus arrhizus*, fungicide 1965
Ulocladium chartarum 6246
- Manihot esculenta,**
Aspergillus fumigatus, protein, food 2564
Colletotrichum gloeosporioides 7908
Drehslera rostrata 4378
fermentation, garri, microorganisms 8451
Oidium manihotis 7909
Paeclomyces, protein, food 2564
Periconia manihoticola 6258
post-harvest decay 6327
Sphaceloma 7909
Sporotrichum thermophile, protein, food 2564
- Manilkara hexandra,**
Phyllosticta helletorella 1836
- Mannan,**
Candida utilis, immobilisation, concanavalin A-magnetite 8305
Saccharomyces cerevisiae 1686
Saccharomyces cerevisiae, immobilisation, concanavalin A-magnetite 8305
yeast 3216
- beta-Mannan,**
degradation, soil *Streptomyces* 9525
- Mannanase,**
Aspergillus niger 1660
Phellinus abietis 8372
- beta-Mannanase,**
soil *Streptomyces*, beta-mannan degradation 9525
- Mannitol,**
Scleroderma aurantium 4033
Streptomyces mutans 5113
- Mannitol salt agar,**
Vibrio parahaemolyticus 1588
- Manno-glucan,**
Brachypodium ramosum rhizosphere bacteria 3228
- Mannooligosaccharide,**
Mycobacterium smegmatis 4119
- Mannophosphoinositide,**
Nocardia asteroides 2520
- Mannose,**
Ecacillus, locust bean gum degradation 5191
Rhizobium polysaccharide 2511
- alpha-Mannosidase,**
acinetobacter 8373
Phellinus abietis 8372
- beta-Mannosidase,**
Aspergillus niger 6901
- Manure,**
bacterial degradation, methane, scum drag 1183
bovine, silage, microbiology 7791
carbon assay 6754
cattle, microbial protein, animal feed 9615
chicken, composting, bacteria 8222
farm-yard, soil microorganisms 6451
fermentation, microorganisms 7487
fermented, animal feed 3413
liquid, soil microorganisms 6451
liquid, treatment 1455 10443
nitrification/cenitrification 1457
pig, *Salmonella*, treatment 9206
poultry, fermentation, poultry feed 9614
soil, nitrification 6435
treatment, animal feed 1476
treatment, cattle breeding unit 6706
wet composting 700
- Manzate,**
Lophodermium pinastri, pine 1146
Uromyces phaseoli, snap bean 2798
- Manzate D,**
see Maneb
- Maple,**
bigleaf, *Phellinus weirii* 7232
chip piles, fungi 421
Norway, *Verticillium albo-atrum*, electrical resistance 8857
red, resistance, *Lenzites trabea* 420
sugar, microflora 8850
sugar, *Verticillium albo-atrum*, electrical resistance 8857
- Marasmiellus epochnous,**
Japanese mint 4396 4397
- Marasmius,**
microorganisms 2536
- Marasmius oreades,**
fairy ring disease, cyanide 2536
- Marble,**
degradation, pigeon excrement microorganisms 4183
- Marbrure virus,**
grapevine 9867
- Marek's disease vaccine,**
turkey herpes virus 3091
- Marek's disease virus,**
avian cell culture, HEPES buffer 4989
DNA, polyacrylamide gel electrophoresis 9452
poultry house disinfection 10433
- Marek's disease virus vaccine,**
6663 10430
- Maridomycin,**
9501
- Maridomycin II,**
leucomycin A3, carbomycin A, carbomycin B, *Streptomyces hygroscopicus* 10331
- Maridomycin III,**
transformation, *Streptomyces* 5746
- Marigold,**
Alternaria calendulae 8706
- Marine bacterium,**
continuous culture 5836
hydrocarbons 479
- Marjoram,**
fungicide 3569
- Marrow,**
Sphaerotheca fuliginea 1056
vegetable marrow mosaic virus, polyethylene glycol-sodium chloride centrifugation 4014

Subject index

Marrow(Contd),

- watermelon mosaic virus 5378
- watermelon mosaic virus, aluminium foil 6346 7984
- watermelon mosaic virus, tree bark extracts 5434

- Marrow mosaic virus,**
polyethylene glycol-sodium chloride
centrifugation 4014

- Marrubium alternidens,**
Leveillula 4297

- Marsh,**
bacteria, antibiotics 3056
salt, microorganisms, toxicants 10072

- Marssonina,**
8291

- Marssonina brunnea,**
eastern cottonwood 6394
eastern cottonwood, resistance 5456

- Marssonina fragariae,**
strawberry 2757

- Marssonina juglandis,**
fructification sections, scanning electron
microscopy 3197

- Marssonina rosae,**
rose, fungicide 2806

- Marssonina salicis,**
willow 10018

- Marzyme,**
Mucor miehei, rennet casein 2573

- Mass,**
Mycobacterium leprae, electron microscopy 10575
viruses, quantitative electron microscopy 7587

- Mass fragmentography,**
T-2 toxin, milk 989

- Mass spectrometry,**
+ gas chromatography, mycophenolic acid,
Penicillium brevicompactum 811
aminocyclitol-aminoglycoside antibiotics 560

- Mass spectrum,**
malformin 1423

- Mass transfer,**
non-Newtonian fermentation broth 90

- Mastigospirium rubricosum,**
orchardgrass 7875 8641

- Mastic milk,**
fermentation, antibiotics, cattle feed 4229

- Mastitis,**
-causing microorganisms, antibiotics 2167
bacteria, antibiotic sensitivity testing 10116

- bacteria, antibiotics resistance 10116
- cattle, azetidinone derivatives 3687
- cattle, cephalosporins 3016
- cattle, chlorhexidine/iodophor/quaternary
ammonium compound/hypochlorite teat dip 3922

- cattle, hygiene 1523
- cattle, penicillin derivatives 3037
- cattle, teat dip 736
- cephoxazole + penicillin G, bacterial
beta-lactamase resistance 10252

- milk 1724 2566 4202
- milk plant hygiene 3923
- milking machine 734
- Mycoplasma agalactiae, teat dip/sanitizer 735

- penicillin derivatives 3038

- Mastitis test,**
Wisconsin, milk 8474

- Mathematical optimization,**
microbiology 4915

- Matricaria inodora,**
clovers yellow type disease, mycoplasma-like
organism 4295

- Matthiola incana,**
Oidium/Oidiopsis 5299

- Mayonnaise,**
microbiology 9606

- Maytansinoids,**
10264

- Mazlocillin,**
antibacterial agent 5672

- McConkey broth,**
Escherichia coli, sewage/fresh water/sea
water 3877

- Meal,**
aflatoxins, peanut 5273
aflatoxins, peanut meal 5273

- Meat,**
see also under individual types
abattoir hygiene 6745 7524
antibacterial agent, rosemary spice
extractive 6126
antibiotic residues, dialysis test 1747
antibiotic-resistant bacteria 1748
aseptic slicing 8525
bacteria 8504
bacterial cell counts 6063
bacterial inoculation 3167
bacterial surface count 6503
bactericide, hypochlorous acid 965
bacteriology 1749 4209
canned, microorganisms, heat resistance 5157
canned, nitrite, Clostridium botulinum 9678
canning 219
carcass, bacterial count 8259
carcass, surface sampling, contact plate
method/swab method 7521
Chinese-style barbecued, microorganisms 6076
Clostridium botulinum, enumeration medium 7765
Clostridium welchii 6746
coliform 4210
export plant, hygiene 3926
flavouring, yeast autolysates 7031
frozen, Salmonella 6075
fungi 8505
game, hygiene 10499
goat, Staphylococcus enterotoxins 7097
hot boning, hygiene/quality control 8509
hygiene 739 6746 7526 9243
hygiene, Salmonella 7525
Lactobacillus 4208
meals, film/foil packaged, heat preservation 9681
microbial standards 7013
microbiological testing 6502
microbiology 6074
minced, Aeromonas 6993
minced, bacterial counts 2584
minced, packaged, bacteriology/quality
control 2583
minced, Salmonella 6064
packaging 6074 8544
plastic wrapping, bacteriology 8545
poultry, mechanically-deboned, microbiology 5229
poultry, pasteurisation 9673
preseasoned comminuted turkey, microorganisms 9574
preservation 1789 1792 3224 7801 8543 8544
preservation, carbon monoxide/carbon dioxide 8548
preservation, Clostridium sporogenes 9679
preservation, drying 8528
processing, preservation 7650
protein, microorganisms 5230
Pseudomonas 4208
Pseudomonas graveolens 921
rabbit, preservation 5255
refrigerated/frozen, Clostridium perfringens 7766
Salmonella 7761 8209
Salmonella, Rappaport's enrichment medium 10587
Staphylococcus aureus 8461

Subject index

Meat (Contd),

- vacuum bag package 8546
- vacuum packaging 966
- water activity 218
- yeasts, histological test 9584
- Yersinia enterocolitica*, heat resistance, skim milk 9540

Meat industry,

- air-borne microorganisms removing device 7464
- disinfection 7527
- hygiene 3527 5812 7527 7528 8259 9240 9241 9242
- Salmonella* 8209
- surface sampling, contact plate method/swab method 7521

Meat-packing plant,

- effluent, bacteria 6697

Meat product,

- aseptic slicing 8525
- bacteria, shelf-life 6085
- bacterial cell counts 6083
- bacteriology 1749
- fermented 6082
- fermented, quality control 6082
- funai 8505
- luncheon meat, bacteriology 9578
- microbiological testing 8502
- microbiology 6081
- microbiology, hygiene 3928
- minced, *Salmonella* 6084
- mycotoxins 8564
- packaged, heat preservation 9680
- packaged, sterilisation 1768
- polyphosphate hydrolysis, *Micrococcus/Lactobacillus* 2585
- preservation 7805
- quality control 5231
- Salmonella* 8209
- sterilisation 1793
- water activity 218

Meat-stripping machine,

- hygiene 8258

Mecillinam,

- + beta-lactam antibiotic, antibacterial agent 1366
- antibacterial agent 6583
- Enterobacteriaceae* 4767
- Enterobacteriaceae*, resistance 4767
- Escherichia coli* 3811 4768 6583
- Proteus mirabilis* 6583
- Staphylococcus aureus* 6583
- tolerance, *Bacillus subtilis* 2168
- tolerance, *Streptococcus pneumoniae* 2168

Medcardonia dianthera,

- Oidium* 2565

Medermycin,

- Streptomyces tanashiensis*, antibacterial agent/antitumour antibiotic 4812

Medicago,

- Leptotrochila medicaginis* 2669

Medicago cancellata,

- resistance, *Stemphylium botryosum* 2780

Medicago coerules,

- resistance, *Stemphylium botryosum* 2780

Medicago falcata,

- Leptotrochila medicaginis* 2669

Medicago hemicycla,

- resistance, *Stemphylium botryosum* 2780

Medicago sativa,

- + *Rhizobium* 4581
- + *Rhizobium*, nodulation, polygalacturonase 3648
- + *Rhizobium meliloti* 4585
- + *Rhizobium meliloti*, nitrogen fixation 10064
- + *Rhizobium meliloti*, nitrogen fixation, soil pH 10065

Medicago sativa (Contd),

- + *Rhizobium meliloti*, nodulation, nitrogen fixation, ammonium nitrate fertilizer 5490
- + *Rhizobium meliloti*, nodule, electron microscopy 6442
- + *Rhizobium*, nitrogen fixation 5488 5489
- alfalfa mosaic virus 255 1005 1840 8599 8600
- Alternaria brassicae* 2668
- Colletotrichum trifolii* 6175
- Corynebacterium insidiosum*, fluorescent microscopy 6773
- crown rot 3458
- degradation, soil microorganisms, fungicide/bactericide/microbiocide 8927
- fungal crown rot 7108
- fungal post-harvest decay 8747
- Fusarium* 9751
- Fusarium roseum* 6174
- Leptosphaerulina brassicae* 1006 2393 9751
- Leptotrochila medicaginis* 2669
- Leveillula* 4297
- microbial disease 256
- Myrothecium verrucaria* 6189
- Peronospora trifoliorum* 9751 9752
- Phoma medicaginis* 8601 9751
- Phytophthora megasperma* 5300
- Phytophthora megasperma*, *Rhizobium meliloti* 5301
- Phytophthora megasperma*, soil 8884
- Pseudopeziza medicaginis* 6176 9751
- resistance, *Colletotrichum trifolii* 9925
- resistance, fungal crown rot 7108
- resistance, *Phytophthora megasperma* 1977
- resistance, *Stemphylium botryosum* 2779 2780
- resistance testing, *Colletotrichum trifolii* 6328
- root rot 3458
- Sclerotinia trifoliorum* 8601
- Stemphylium botryosum* 6176 9751
- Verticillium albo-atrum* 1841 9753
- whey, *Rhodotorula* protein 6839
- whey, *Saccharomyces* protein 6839

Medical equipment,

- antibacterial agent/antifungal agent, quinolizone-2-carboxylic acid derivatives 4594
- disinfectant, antibiotic U-48266 4789
- glutaraldehyde disinfectant/sterilizer 9014

Medical instrument,

- aseptic packaging 2161
- glutaraldehyde disinfection/sterilisation 3907 3908
- sterilant immersion container 3736

Medical microbiology laboratory,

- pathogenic microorganisms isolation, quality control 5614

Medical product,

- gamma-irradiation sterilisation, microorganisms 2156

Medicament,

- bacteria, polytropic diagnostic tuber 9259
- eye, quality control 548
- ophthalmic, plastic package 5612
- preservative, cinnamyl phenols 532
- quality control 1292
- sterile, container 2162
- sterilisation 2154

Medicament container,

- sterilisation, laser beam-induced plasma 1279

Medicarpin,

- clover, fungal transformation 3463
- Helminthosporium carbonum* 4496 4497
- Helminthosporium carbonum*, chickpea 6348
- red clover, *Sclerotinia sclerotiorum/Botrytis cinerea* 1846
- Stemphylium botryosum* 4496 4497
- Stemphylium sarcinaeforme* 4496 4497

Subject index

Medium

see also Culture medium
 N-acetylcysteine, antibiotics 10238
 amphotericin B sensitivity testing 2232
 amylase testing, Mueller-Hinton agar,
 Streptococcus bovis/Streptococcus group
 D/Pseudomonas stutzeri 4000
 Anderson's, bacteria, estuarine water 3135
 antibiotic sensitivity testing 10231
 antibiotic sensitivity testing, anaerobic
 bacteria 4716
 antibiotic sensitivity testing,
 bacteria/fungi 4715
 antimicrobial agent sensitivity testing,
 bacteria/fungi 4715
 bacterial counts, sea water 9264
 beet pulp, Aspergillus niger pectinases 3302
 bile-esculin agar, Enterobacteriaceae 9272
 blood agar, anaerobic bacteria 3956
 blood agar, Mycobacterium avium
 complex-serotype 6 3980
 blood agar, streptococcus group A, bacitracin
 4971
 blood culture, anaerobic bacteria 10550
 blood culture, bacterial L-form 4939
 blood culture, microcalorimetry 10523
 carbohydrate fermentation, Neisseria 4960
 carboxymethylcellulose, microbial cellulase
 3948
 cetrimide, Pseudomonas 3191
 cheese whey, Propionibacterium shermanii,
 porphyrin/corrinoid 4133
 chemotaxis, Bacillus subtilis 4941
 coconut-agar, Aspergillus flavus, aflatoxins
 5269
 coconut-agar, Aspergillus parasiticus,
 aflatoxins 5269
 colloidal silica, yeasts, fruit 6090
 confirmatory, Clostridium tyrobutyricum, milk
 917 918
 cooked meat, Clostridium botulinum 10554
 culture 4931
 culture, Allomyces arbuscula 3198
 culture, Allomyces macrogynus 3198
 culture, amines, yeasts 4168
 culture, amphotericin B, antifungal agent
 3706
 culture, anaerobic bacteria 3954 5834
 culture, anaerobic bacteria, antibiotic
 sensitivity testing 6764
 culture, anaerobic bacteria, swine faeces
 4938
 culture, arginine, Mycoplasma 3212
 culture, Aspergillus flavus, aflatoxin, bread
 6139
 culture, Bacillus brevis, gramicidin S 4805
 culture, Bacillus mesentericus, gelatinase
 6891
 culture, Bacillus, pyrolysis gas liquid
 chromatography 7547
 culture, bacteria 10583
 culture, brewery bacteria 7699
 culture, casamino acids, Bacteroides
 melaninogenicus 4942
 culture, catalase, Clostridium 7552
 culture, Cercospora fusimaculans 1022
 culture, Citrobacter freundii 3970
 culture, Clostridium perfringens 2376
 culture, Columbia colistin-nalidixic acid
 agar, Haemophilus vaginalis 3976
 culture, corn stunt spiroplasma 10590 10591
 culture, Dictyostelium discoideum 9304 10642
 culture, ethanol, Candida utilis 8294
 culture, fish peptone, microorganisms 9252
 culture, fungi, quality control 9023
 culture, Fusarium 7584
 culture, glucosamine/glucosamine derivatives,
 Treponema phagedenis 2390
 culture, heat-injured Vibrio parahaemolyticus
 9289

Medium(Contd)

culture, Helminthosporium spiciferum, wheat
 1042
 culture, hyaluronic acid, Mycobacterium
 leprae 7567
 culture, hypertonic, bacteria 3961 3962
 culture, Lactobacillus 7565
 culture, lecithin-cholesterol liposome,
 Mycobacterium 2381
 culture, miconazole, antifungal agent 3706
 culture, Micrococcus luteus 9276
 culture, Micrococcus radiodurans 9276
 culture, Micrococcus radiophilus 9276
 culture, Micrococcus roseus 9276
 culture, Micrococcus varians nuclease 1665
 culture, Micromonospora purpurea, gentamicin
 9091
 culture, microorganism 9251
 culture, microorganisms 3942
 culture, Mycobacterium lacticum 9278
 culture, Mycobacterium lacticum,
 polysaccharide 2918
 culture, Mycobacterium leprae 3987
 culture, Mycobacterium lepraemurium 3981
 culture, Mycobacterium tuberculosis,
 Streptococcus salivarius/Streptococcus
 faecalis 3988
 culture, Mycoplasma 8278
 culture, Mycoplasma hominis 8278
 culture, Mycoplasma pneumoniae 8278
 culture, Mycoplasma, serum protein 2402
 culture, Neisseria gonorrhoeae 5848 10582
 culture, Neisseria gonorrhoeae, brain heart
 infusion blood agar 7570
 culture, Paecilomyces persicinus,
 cephalosporin C 4749
 culture, Pasteurella haemolytica 10583
 culture, Pasteurella multocida 10583
 culture, peat hydrolysate, yeast,
 protein/biomass/carotenoid 2434
 culture, Penicillium chrysogenum, penicillin
 2216
 culture, Penicillium javanicum, protease
 8391
 culture, peptone-starch-dextrase agar,
 Haemophilus vaginalis 3976
 culture, Petri dish 2359
 culture, Physarum gyrosum, antibiotic 2238
 culture, Pilobolus crystallinus 5659
 culture, Pilobolus kleinii 5859
 culture, Pleurotus sapidus 2394
 culture, potato starch waste, Penicillium
 digitatum, protein/biomass 2430
 culture, pre-reduced anaerobically
 sterilised, anaerobic bacteria 7543
 culture, protozoan, fungicide,
 5-fluorocytosine 9024
 culture, Pseudomonas aeruginosa, antibiotic
 sensitivity testing 6549
 culture, Pseudomonas, dissolved oxygen 3190
 culture, Rothia dentocariosa 4963
 culture, rumen bacteria 3169
 culture, rumen fluid, rumen bacteria 9265
 culture, rye germ, Lactobacillus brevis 4953
 culture, rye germ, Lactobacillus delbrueckii
 4953
 culture, rye germ, Lactobacillus plantarum
 4953
 culture, rye germ, Leuconostoc mesenteroides,
 dextran 4953
 culture, selenobiotin, microbial 7532
 culture, silica gel, Aspergillus flavus,
 aflatoxins 1801
 culture, silica gel, Aspergillus parasiticus,
 aflatoxins 1801
 culture, skim milk, starter bacteria 7746
 culture, sodium chloride, methanogenic
 bacteria, methane 8042
 culture, sodium chloride, Vibrio
 parahaemolyticus 5202

Subject index

Medium(Contd),

culture, *Sphaceloma curcumae* 3203
 culture, *Spiroplasma citri* 10590
 culture, *Staphylococcus aureus*, low
 ultraviolet absorptivity 4968
 culture, *Staphylococcus aureus*, white cheese
 1743
 culture, sterilisation, hydrogen peroxide
 8104
 culture, sterilizer 10204
 culture, *Streptococcus* 3996
 culture, *Streptococcus faecium*, urease 4974
 culture, sulphate-reducing bacteria 10089
 culture, *Thielavia terricola* 1004
 culture, thymidine 9275
 culture, titanium citrate, anaerobic bacteria
 4934
 culture, *Tricholoma matsutake* 5863 5864
 culture, Tween 80, *Trigonopsis variabilis*
 10624
 culture, urinary tract infection 4931
 culture, *Veillonella alcalescens* 6792
 culture, *Veillonella parvula* 6792
 cystine-lactose electrolyte deficient, urine
 culture 3963
 deoxyribonuclease-indole, Enterobacteriaceae
 7541
 differential agar, *Ureaplasma urealyticum*
 1603
 differential plating, *Salmonella arizonae*
 6786
 differentiation, *Listeria monocytogenes*
 10568
 enrichment, 4-chloro-2-cyclopentylphenyl
 beta-D-galactopyranoside, *Shigella*,
Escherichia coli 8286
 enrichment, *Clostridium tyrobutyricum*, milk
 917 918
 enrichment, cold-stressed/heat-stressed
Vibrio parahaemolyticus 8290
 enrichment, Dettol, *Pseudomonas aeruginosa*
 4961
 enrichment, heat-stressed *Staphylococcus*
aureus, dairy product 5211
 enrichment, *Listeria monocytogenes* 10568
 enrichment, New York City, + biological
 environment carbon dioxide chamber,
Neisseria gonorrhoeae 10580
 enrichment, petroleum-degrading bacteria,
 estuarine water 7290
 enrichment, Rappaport's, *Salmonella* 10587
 enrichment, *Salmonella* 3193 4964 6784 7573
 enrichment, *Salmonella*, cocoa powder,
 bactericide 7032
 enrichment, *Salmonella*, estuarine water 7505
 enrichment, *Salmonella*, food 3378 7573
 enrichment, *Salmonella*, food, animal feed
 6030
 enrichment, *Salmonella*, malachite green +
 Rappaport's medium 5852
 enrichment, *Salmonella*, sausage 3401
 enrichment, *Salmonella*, sewage-polluted water
 10476
 enrichment, *Salmonella*, water 3894
 enrichment, *Streptococcus* 3996
 enrichment, *Streptococcus* group D 9288
 enrichment, *Streptococcus* phages, sewage
 9202
 enrichment, *Yersinia enterocolitica* 4976
 enumeration, *Clostridium botulinum*, meat
 7765
 enumeration, *Clostridium perfringens*, food
 7721
 enumeration, starch casein salt agar,
Streptomyces 6791
Escherichia coli enterotoxin 6152
Fusarium culmorum, F-2 toxin 6144
Fusarium graminearum, F-2 toxin 6144
Gibberella zeae, F-2 toxin 6144

Medium(Contd),

glycerophosphate-milk-agar, cheese starter
 bacteria 155
 horse blood agar, fermentation, anaerobic
 bacteria 3168
 identification, anaerobic bacteria, swine
 faeces 4938
 identification, *Candida albicans* 10616
 identification, *Cryptococcus neoformans*
 10616
 identification, Litmus milk agar,
Propionibacterium 10584
 identification, *Streptococcus* group B pigment
 3999
 indicator, *Salmonella* 3193
 inositol fermentation, *Klebsiella* 4949
 isolation, acriflavine, *Listeria*
monocytogenes 10569
 isolation, activated sludge bacteria 6687
 isolation, *Alternaria trititica*, wheat 1040
 isolation, anaerobic bacteria, swine faeces
 4938
 isolation, anaerobic organism 1557
 isolation and differentiation, *Streptococcus*
mutans 10602
 isolation, *Aspergillus flavus*, cottonseed
 8293
 isolation, citrate, *Clostridium sphenoides*
 7554
 isolation, *Corynebacterium diphtheriae* 7555
 isolation, *Corynebacterium vaginale* 10556
 isolation, cutting fluid fungi 477
 isolation, D-cycloserine bitartrate,
Clostridium 3377
 isolation, dental plaque Actinomycetaceae
 6768
 isolation, dermatophytes 10623
 isolation, *Fusarium* 7584
 isolation, gentamicin blood agar,
Streptococcus pneumoniae 10603 10604
 isolation, T-mycoplasma 10578
 isolation, nalidixic acid 4664
 isolation, *Neisseria gonorrhoeae* 10581
 isolation, novobiocin, soil Actinomycetes
 5471
 isolation, *Pseudomonas* 9280
 isolation, *Salmonella* 6784
 isolation, *Salmonella*, sewage-polluted water,
 selenite F/Muller-Kauffmann tetrathionate
 5799
 isolation, *Shigella sonnei*, human faeces,
 selenite F 5853
 isolation, *Staphylococcus aureus*, food 1714
 isolation, *Streptococcus* 3996
 isolation, *Streptococcus* group D 9288
 isolation, *Streptococcus mutans* 10601
 isolation, Streptomycetes, milk 7734
 isolation, tetracycline resistant *Vibrio*
cholerae 1209
 isolation, Trichophyton mentagrophytes 10623
 isolation, Trichophyton rubrum 10623
 isolation, *Ureoplasma urealyticum* 6801
 isolation, xylose lysine deoxycholate agar,
Salmonella 9284
 isolation, *Yersinia enterocolitica* 4976 4977
 isolation, zylose lysine deoxycholate agar,
Shigella 9284
Lactobacillus bulgaricus phage 151
Lactobacillus helveticus phage 151
Lactobacillus lactis phage 151
 lactose, *Rhizobium/Agrobacterium* 6781
 liquid, *Neisseria gonorrhoeae* preservation
 5608
 liquid sulphite, *Clostridium perfringens*,
 frozen ground beef 6079
 m-FC, *Klebsiella pneumoniae* 4950
 methanol, *Candida boidinii*, Rosenbrock's
 method 5856
 milk, *Candida albicans*, chlamydospore 7580
 Minca, *Escherichia coli* K99 antigen 5843

Subject index

Medium(Contd),

modified Sutter's arginine dihydrolase,
Pseudomonas 9282
Penicillium chrysogenum, penicillin 9074
plating, bacterial counts, raw milk 8480
plating, Salmonella, food 3378
polyvinylpyrrolidone, Neisseria gonorrhoeae
L-form 6780
pre-enrichment, Salmonella, gelatin 7723
pre-reduced anaerobically sterilised, butyl
rubber stoppers 9261
Pseudomonas aeruginosa, pyocin cetrimide
4645
recovery, injured coliforms, milk/dairy
product 145
Rosenow, bacteriology 2370
selective, Baird-Parker, Staphylococcus
aureus, food 7724
selective, Easidiomycetes, wood 7245
selective, bismuth sulphite agar, Salmonella
10586
selective, Brucella 7551
selective, caprylate-thallous agar, Serratia
3993
selective, catalase, microorganisms 3947
selective, catalase, stressed Staphylococcus
aureus 8287
selective, chocolate agar, Francisella
tularensis 7560
selective, Clostridium perfringens 7553
selective/culture, oleic acid albumin agar,
Mycobacterium bovis 10573
selective, Cyndrocladium crotalariae, soil
8021
selective, Dettol, Pseudomonas aeruginosa
4961
selective, fungi, food 8468
selective, beta-glycerophosphate,
Streptococcus thermophilus, yoghurt 6070
selective, 3-hydroxy-5-methylisoxazole,
Phytophthora, soil, plants 7586
selective, hymexazol, Phytophthora, soil
10054
selective, inositol, Klebsiella pneumoniae
3977 8275
selective, inositol, Serratia liquefaciens
3977 8275
selective, inositol, Serratia marcescens
3977 8275
selective, microorganisms 3162
selective, Mycobacterium tuberculosis,
radiometry 10576
selective, nalidixic acid,
Enterobacteriaceae, river water 720
selective, Neisseria gonorrhoeae 9279
selective, nitrofurantoin-containing, Micrococcus
3995
selective, novobiocin, Citrobacter freundii
6785
selective, novobiocin, Escherichia coli 6785
selective, novobiocin, Proteus mirabilis
6785
selective, novobiocin, Salmonella 6785
selective, Propionibacterium, cheese 156
selective, Pseudomonas 9281
selective, Pseudomonas aeruginosa 3192
selective, rumen bacteria 3959
selective, Salmonella, food, animal feed
6030
selective, sheep blood agar +
sulphamethoxazole-trimethoprim,
Streptococcus group A/Streptococcus group B
10595
selective, spectinomycin, Treponema
hyodysenteriae 1584
selective, Staphylococcus aureus, cheese
7005
selective, Staphylococcus aureus, food 2560
selective, Staphylococcus aureus, white
cheese 9573

Medium(Contd),

selective, Streptococcus group A 1580
selective, temperature-stressed Pseudomonas
aeruginosa, food 7722
selective, urinary tract infection bacteria
6766
selective, Vibrio cholerae 1587
selective, Vibrio parahaemolyticus 1586
selenite F broth, Salmonella, faeces 2386
sodium acetate, Enterobacteriaceae 7556
sporulation, Bacillus subtilis, dry-heat
resistance 6769
sporulation, Clostridium chauvoei 9270
sporulation, Helminthosporium gramineum 1594
sporulation, Neovossia indica 3200
sporulation, Sophaceloma curcuma 3203
sporulation, Verticillium albo-atrum 1639
starch/serum agar, Streptococcus group B
4972
sterile, continuous culture, membrane
filtration 3149
Streptococcus thermophilus phage 151
Streptomyces parvulus, actinomycin D 5712
Streptomyces venezuelae sporulation pigment
7651
strontium chloride, Salmonella, egg 164
strontium selenite, Salmonella, egg 164
sucrose agar, brewery Lactobacillus 5170
sucrose agar, brewery Pediococcus 5170
Swiss cheese whey, Kluyveromyces fragilis
4004
thiosulphate citrate bile salt sucrose agar,
Vibrio 3194
transport, anaerobic bacteria 3955
transport, Clostridium perfringens 5837
transport, Escherichia coli 5837
transport, Herpesvirus hominis 8299
transport, Klebsiella pneumoniae 5837
transport, Mycoplasma hominis 5837
transport, Neisseria gonorrhoeae 5837
transport, Staphylococcus aureus 5837
transport, Streptococcus 3946
transport, Streptococcus pyogenes 5837
trypticase soy agar, heat-stressed
Pseudomonas fluorescens 9283
tryptose-sulphite-cycloserine agar pour
plate, Clostridium perfringens, frozen
ground beef 6079
Tween 80 differentiation, Serratia,
Enterobacteriaceae 10588
universal beer agar, bacteria, brewing 5169
whey filtrate, Fusarium moniliforme,
gibberellic acid 4117
Wilkins-Chalgren, antibiotic sensitivity
testing, anaerobic bacteria 10229
yeast extract-mannitol agar, Rhizobium
leguminosarum, peat 8898
Megacin C,
Bacillus megaterium 5031
Megacin Cx,
Bacillus megaterium 5031
Megadelphax sordidula,
Phleum green stripe virus, timothy
grass/cereal 1871
Megasphaera elsdenii,
rumen, ATP 6782
ruminant feed, milk 944
Melaleuca magnifica,
Cylindrocladium quinqueseptatum 4535
Melampsora,
8291
plant disease, resistance 3455
willow 10018
Melampsora allii-populina,
poplar 3621
Melampsora cerastii,
Siberian fir 6384

Subject index

- Melampsora larici-populina**,
poplar 3621 4540
- Melampsora lini**,
flax 6266
flax, fungicide 8801
flax, resistance 360
- Melampsora medusae**,
eastern cottonwood, resistance 5456
poplar 4540
- Melanconiales**,
antibiotics, antibacterial agent/antifungal agent/antiprotozoal agent/antiviral agent 5617
- Melanin**,
Actinomyces umbriferus 6946
Alternaria 9471
antibiotics 1303
- Melanin-like compound**,
Macrophomina phaseolina, soybean 2683
- Melanine pigment**,
Microsporum canis 5132
Trichophyton rubrum 5132
- Melanopsammopsis ulei**,
plant disease 2656
- Melanose**,
Diaporthe citri, Citrus, copper compound 2026
Diaporthe citri, grapefruit, fungicide 2722
- Melasma**,
8291
- Meldrum's acid**,
derivatives, antibacterial agent/antifungal agent 9007
- Melia azadirachta**,
Alternaria alternata 3615
Periconia parasitica 7155
- Melia azedarach**,
extracts, antifungal agent, plant protection 9956
- Melibiose**,
microbial 9501
- Melilotus alba**,
Ascochyta caulicola 4304
pterocarpan phytoalexins, fungal transformation 3463
- Melioidogyne javanica**,
+ Fusarium oxysporum, ninde 2750
- Melioidosis**,
Pseudomonas pseudomallei, indirect haemagglutination test 10585
- Meliola mangiferae**,
mango post-harvest decay 9917
- Mellein**,
Cercospora 7826
- Meloidogyne hapla**,
+ Pythium polymorphon, celery 1918
Pythium polymorphon, celery 7911
- Meloidogyne incognita**,
+ Rhizoctonia solani, tomato 9903
bottle gourd mosaic virus, bottle gourd 2740
brinjal mosaic virus, brinjal 2740
Fusarium oxysporum, tomato 8742
nematode-inhibiting substance, Rhizoctonia solani, potato 3526
tomato, Fusarium oxysporum resistance 1992
- Meloidogyne javanica**,
+ Verticillium dahliae, tomato 4428
- Melon**,
Colletotrichum capsici 1066
Colletotrichum lagenarium 1067 2747 6167
Cucumis virus 2/cucumber green mottle mosaic virus 7153
Fusarium oxysporum 4393
Fusarium oxysporum, dextranase 1835
Fusarium oxysporum, pectinolytic/cellulolytic enzymes, potassium 7154 7922
Fusarium oxysporum, soil potassium 7923
Fusarium solani 3516
musk, Fusarium oxysporum 1068 2748
Plasmopara viticola, fungal germanium 1694
- Melon (Contd.)**,
Pseudoperonospora cubensis 9874
Pyrenochaeta lycopersici 5251
resistance, Erwinia tracheiphila 3557
resistance, Pseudoperonospora cubensis 4466 9874
rhizosphere microflora/Fusarium oxysporum, foliar nutrient sprays 1165
Sphaerotheca fuliginea 1026
Sphaerotheca fuliginea, fungicide 4491
squash mosaic virus 2746
Thielaviopsis paradoxa post-harvest decay 9918
- Melon, water-**,
see Watermelon
- Melprex**,
Melampsora larici-populina, poplar 2047
- Membrane**,
bacteria, antibiotics resistance 7295
Candida albicans, phosphatase, amphotericin B 5645
Candida albicans, phosphatase, Levorin 5645
Candida albicans, phosphatase, nystatin 5645
cytoplasmic, Pseudomonas aeruginosa 6821
Escherichia coli, lipoproteins, chloramine T iodination labelling 8274
microbial cell, enzymatically-active protein 5912
Micrococcus lysodeikticus, gramicidin S 5739
outer, Pseudomonas aeruginosa 6821
plasma, Dictyostelium discoideum, purification, equilibrium sucrose density centrifugation 5018
Saccharomyces carlsbergensis 1697
Saccharomyces cerevisiae 1697
Saccharomyces cerevisiae, food 1720 1721
yeast 1697
yeast cell, deproteination 6823
- Membrane diffusion chamber**,
lake water bacteria 4880
+ most probable number test,
Salmonella/coliform, estuarine water 722
-DNA test, somatic cells, milk 6995
Aquella virus concentrator, tap water 3896
Azotobacter, soil/water 3174
beer, yeast, tetracycline, antibacterial agent 1702
coliforms, water 6720
fungi, water 2326
Fusarium solani, soil, scanning/transmission electron microscopy 2869
Nucleopore, bacteria, fluorescence microscopy 9258
Nucleopore, bacteria, fluorescence microscopy/scanning electron microscopy 9263
pleated, poliovirus, estuarine water 3900
Streptococcus/coliform, water/wastewater 1506
Vibrio parahaemolyticus, sea water 3901
- Membrane filter method**,
faecal indicator bacteria, ice-covered river water 3132
- Membrane filtration**,
antibiotics 9029
chlorinated sewage effluent, coliforms 3110
coliform, chlorinated effluent 9271
coliforms, water 10475
drinking water 4872
gas sterilisation 10213
injured coliforms, water 10474
M-FC medium, Klebsiella pneumoniae 4950
penicillins, quality control 10287
pharmaceutical gelatin quality control 9022
Pseudomonas aeruginosa, water/sewage 6719
sterile medium, continuous culture 3149
tetracyclines 9108
wild yeast, brewery 98

Subject index

- Membrane protein,**
Micrococcus lysodeikticus 2436
- Memoniella,**
bottle gourd seed, seed treatment fungicide 8682
- Memoniella echinata,**
ginger post-harvest decay 7945
- Menaquinone,**
Actinomyces olivaceus 2530
Brevibacterium lipolyticum 3342
Oetzkovia turbata 3342
- Mengovirus,**
isatin-3-isothiosemicarbazone derivatives 8093
isatin-3-thiocarbonylhydrazones derivatives 8093
3-methyleneoxindole 6522
pyrimidine derivatives 4652
- Meningeal sarcoma MS-147,**
Proteus mirabilis lipopolysaccharide 3337
- Mentha arvensis,**
Marasmiellus epochrous 4396 4397
- Mentha cardiaca,**
Verticillium dahliae 9885
- Mentha piperita,**
Verticillium dahliae 9885
- Menthyl,**
(-)-menthone degradation, Pseudomonas putida 7708
- L-Menthyl,**
microbial menthylester hydrolase 7637 7638 7639
- (-)-Menthone,**
degradation, Pseudomonas putida 7708
- Menthylester hydrolase,**
Geotrichum candidum 7639
Hansenula anomala 7638
microbial 7637
Rhodotorula mucilaginosa 7638 7639
Trichoderma viride 7639
- 2-Mercapto benzoic acid amide,**
halogenated N-thiazolyl substituted, fungicide/antibacterial agent 6511
- Mercapto-quinoxaline,**
derivatives, antibacterial agent 504
- 2-Mercaptoethanesulphonic acid,**
Methanobacterium ruminantium culture 4954
- 2-Mercaptoethanol,**
Aspergillus parasiticus, aflatoxin 4258
- Mercenaria mercenaria,**
coliform/Salmonella 188
yeasts 6086
- Mercurial,**
cosmetic preservation 4698
organo-, preservative, bactericide 4653
Saccharomyces cerevisiae 2956
- Mercury,**
Agaricus campestris 193
Agaricus silvicola 193
Boletus edulis 193
Escherichia coli 10086
mushroom 193
oil degradation, bacteria 4623
organo-, seed treatment, Fusarium, wheat 6378
resistance, bacteria 7293
resistance, Escherichia coli 8050
resistance, Klebsiella pneumoniae, R factor 8944
resistance, Pseudomonas 2097
resistance, Pseudomonas aeruginosa, + antibiotics resistance 7294
resistance, Pseudomonas, R factor 5528
resistance, Staphylococcus aureus 5533
tolerance, Macrophomina phaseoli, amino acids 2922
- Mercury chloride,**
seed dressing, Fusarium oxysporum, pea seed 1856
snow mould fungi, turfgrass 4485
- Meristem culture,**
asparagus 1993
- Meristem tip culture,**
ryegrass, ryegrass mosaic virus 6413
- Merocyanine,**
derivatives, antibacterial agent/antifungal agent 2140
- Mertect,**
Fusarium oxysporum, wheat 2801
- Merulius lacrymans,**
fungicide 2053
wood, scanning electron microscopy 6400
- Mesophellia arenaria,**
Eucalyptus regnans 7231
- Mesquite,**
bacterial protein, cattle feed 197 822
Cytophaga johnsonae, protein, cattle feed 196
degradation, bacteria 8457
wood, Brevibacterium protein 3237
wood, Pseudomonas, protein, feed cattle 4227
- Metabolic inhibition,**
assay, Acholeplasma reference antisera 5847
assay, Mycoplasma reference antisera 5847
- Metachlorine,**
Rhizobium japonicum + soybean 5505
soil microorganisms 5505
- Metacycline,**
antibacterial agent 5701
- Metacycloprodigiosin,**
Streptomyces longisporus ruber 880 881
- Metal,**
+ bleomycins 6677
-sulphanilamide complexes, antibacterial agent 10148
cutting oil, microorganisms filtration 7287
drainage water, microbial purification 5508
heavy, resistance, bacteria 7293
heavy, resistance, Pseudomonas aeruginosa, + antibiotics resistance 7294
heavy, tolerance, Penicillium ochro-chloron 8930
inorganic, resistance, sewage Achromobacter 2925
inorganic, resistance, sewage Enterobacteriaceae 2925
ions, antifungal agent 3699
ions, antimicrobial agent 4668
ions, Bacillus licheniformis, bacitracin 3049
leaching, ferrolobus 10087
leaching, Sulfolobus acidocaldarius 10087
leaching, Thiobacillus ferrooxidans, chalcopyrite 464
microbial corrosion 463
trace, tree leaf pollutants, Gnomonia platani 7239
- Metal-binding surface-active polymer,**
marine bacteria 460
- Metal dithiocarbamate complex,**
antifungal agent 3700
- Metal protease,**
Bacillus subtilis 2494
- Metal working fluid,**
antibacterial agent/antifungal agent, 1,10-phenanthroline 475
- Metallo-proteinase,**
Chromobacterium lividum 2500
Serratia marcescens 3292 3293
- Metalloendoproteinase,**
Bacillus subtilis, chromatography 3291
- Metampicillin,**
antibacterial agent 2969
Listeria monocytogenes 5620
- Metarrhizium anisopliae,**
destruxins 5896
- Metasystox 55,**
soil, Fusarium solani, bean 10073

Subject index

Metavivianites

- Desulfovibrio desulfuricans, jarosite
- Thiobacillus ferrooxidans, soil 2088

Methabenzthiazuron

- degradation, Cunninghamella echinulata 5192

Methane

- animal waste treatment 6714
- bacterial 8925
- bacterial, acetic acid 2911
- bacterial culture, acetic acid 8936
- biomass fermentation 9319
- brewery waste fermentation 10094
- cattle waste 6459
- cellulose waste degradation 5188
- Clostridium thermocellum, cellulose/cellobiose fermentation 6014
- Clostridium thermocellum + Methanobacterium thermoautotrophicum, cellulose/cellobiose fermentation 6014
- Desulfovibrio vulgaris + Methanobacterium, sewage 9204
- Escherichia coli 10139
- manure degradation, scum drag 1183
- methane bacteria, soybean seed coat waste fermentation, Aspergillus niger hemicellulolytic enzyme 10095
- methane bacteria, yeast production waste 8938
- Methanobacterium, Citrobacter, chemostat culture 8537
- Methanobacterium formicicum 5515
- methanogenic bacteria, sodium chloride 8042
- Methylomonas flagellata, protein 2914
- Methylomonas methanica, oxygen 5518
- microbial, cellulose degradation 9348
- microbial protein, mixed culture 8266
- microbial, waste treatment 2905
- Mycobacterium/Nocardia + Pseudomonas + Moraxella + Methylococcus, chemostat culture 10097
- oil, microbial oxidation 482
- oxidation, Methanomonas margaritae 2093
- oxidation, Methylococcus capsulatus 473
- oxidation, Methylomonas methanica, coal 8929
- oxidation, Methylomonas rubrum 2915
- rice rhizosphere 10042
- rubber latex effluent 690
- suppression, trichloroethyl adipate, ruminant feed 9620
- waste 474
- waste, microorganisms 5785
- waste treatment 2910 4616 6675 7471 10465
- waste treatment, glass fermenter bottom outlet valve 4919

Methane bacterium

- methane, vitamin B12, yeast production waste 8938

Methane-forming bacterium

- after-yeast molasses stillage fermentation 893

Methane mono-oxygenase

- Methylosinus trichosporium 6902

Methane sodium

- partial soil sterilant, Plasmodiophora brassicae, crucifer 5424

Methanobacteriaceae

- fluorescence microscopy 6777

Methanobacterium

- + Desulfovibrio vulgaris, sewage, methane 9204
- chemostat culture, Citrobacter, methane 8937
- culture, amorphous ferrous sulphide 6765
- culture medium, titanium citrate 4934
- fluorescence microscopy 6777
- methane 8935
- rubber latex effluent, methane fermentation 690
- vitamin B12 2529
- Methanobacterium formicicum, fluorescence microscopy 6777

Methanobacterium formicicum(Contd)

- methane 5515

Methanobacterium MOH

- methane, sodium chloride 8042

Methanobacterium omelianskii

- rubber latex effluent, methane fermentation 690

Methanobacterium ruminantium

- culture 4954
- fluorescence microscopy 6777

Methanobacterium thermoautotrophicum

- + Clostridium thermocellum, cellobiose fermentation 6014
- + Clostridium thermocellum, cellulose fermentation 6014
- methane, sodium chloride 8042

Methanococcus

- rubber latex effluent, methane fermentation 690

Methanococcus vannielii

- methane 8935
- rubber latex effluent, methane fermentation 690

Methanol

- 2428
- Aspergillus, protein/biomass 2428
- Bacillus, protein 9320
- bacterial culture 767 9250
- Botrytis, protein/biomass 2428
- Candida boidinii biomass 6225
- Candida boidinii culture 4003
- Candida boidinii, fatty acid 5906
- Candida boidinii, formaldehyde/formic acid 2418
- Candida boidinii, Rosenbrock's method 5856
- Candida methanolica 780
- Candida tropicalis, fatty acid 5906
- Candida utilis, fatty acid 5906
- fermentation, gas chromatography 92
- Fusarium, protein/biomass 2428
- Hansenula polymorpha, methanol oxidase 4982
- Hansenula polymorpha, protein 821 9348
- Hypomicrobium, denitrification, wastewater 5780
- Klebsiella, biomass, vitamin B12 9321
- Klebsiella, vitamin B12/5,6-dimethylbenzimidazolyl cobamide coenzyme 2917
- Methylomonas methanolica, biomass/protein 5900
- Methylomonas methanolica, protein, food, animal feed 9341
- Methylomonas, protein 5901
- Methylophilus methylotrophus, chicken feed 9617
- Methylophilus methylotrophus protein 9340
- Methylophilus methylotrophus, turkey feed 9617
- microbial culture 9249
- microbial, protein 9348
- microbial protein, chicken feed 7778
- microbial protein, food 9343
- microbial protein, mixed culture 8266
- microbial protein, pig feed 6099
- Microcyclus eburneus, vitamin B12 9675
- microorganisms, animal feed/food 820
- microorganisms, Protein 3235
- mycophaga 3182
- Penicillium, protein/biomass 2428
- Pseudomonas 3ab, L-serine 8322
- Pseudomonas AM-1, biomass, vitamin B12 9321
- Pseudomonas AM-1, vitamin B12 9475
- Pseudomonas, biomass/protein 5900
- Pseudomonas inaudita, protein 5036
- Pseudomonas methanica, protein 821
- Pseudomonas methylotropha, biomass/protein 5900
- Pseudomonas methylotropha, protein, chicken feed 2598 9616
- Pseudomonas rosea, biomass/protein 5900

Subject index

Methanol(Contd),

- Pseudomonas utilis, protein 5036
- Saccharomyces cerevisiae, fatty acid 5906
- Torulopsis methanolovescens 780
- Trichoderma lignorum batch culture 6843
- Trichoderma, protein/biomass 2428
- yeast, mathematical optimization 4915

Methanol dehydrogenase,

- Methylosinus sporium 1661

Methanol oxidase,

- Hansenula polymorpha, methanol 4982

Methanomonas,

- animal feed/food, methanol 820

Methanomonas margaritae,

- methane oxidation 2093

Methanosarcina barkeri,

- fluorescence microscopy 6777

Methanospirillum,

- methane 8935

Methanospirillum hungatii,

- fluorescence microscopy 6777

- methane, sodium chloride 8042

Methicillin,

- + amikacin 4794
- + gentamicin/tobramycin, Streptococcus group D 5642

- antibacterial agent 2178 3752 7376

- antibacterial agent, antibiotic sensitivity testing 9035

- antibiotic sensitivity testing 5625

- bile system microflora 2995

- Clostridium perfringens 7371

- Escherichia coli 555 1304

- irradiation sterilisation 4769

- methyl ester, structure 6584

- milk, penicillinase 4192

- Propionibacterium acnes 5630

- Proteus 1304

- Pseudomonas aeruginosa 1304

- resistance, Bacillus licheniformis,

- penicillinase,

- alkylsulphates/alkylarylsulphonates 8953

- resistance, bacteria 5526

- resistance, Staphylococcus 8955

- resistance, Staphylococcus aureus 488 7302

- resistance, Staphylococcus aureus, antibiotic

- sensitivity testing 10124

- resistance, Staphylococcus aureus L-form

- 3750

- resistance, Staphylococcus aureus,

- beta-lactamase 5535

- resistance, Staphylococcus, penicillinase,

- alkylsulphates/alkylarylsulphonates 8953

- resistance, Yersinia pseudotuberculosis 4638

- Staphylococcus 1304

- Staphylococcus, anaerobiosis 9044

- Staphylococcus aureus 1367 3032

- Staphylococcus aureus penicillinase 7372

- Staphylococcus aureus, resistance 2169

- Streptococcus mutans 552

Methioninase,

- Pseudomonas putida 854

Methionine,

- Arthrobacter 3230

- assay, Leuconostoc mesenteroides, protein

- hydrolysate 5204

- Brevibacterium 3230

- cowpea, assay, Leuconostoc mesenteroides

- 10567

- Escherichia coli RNA polymerase 1676

- Mycobacterium 3230

L-Methionine,

- N-acyl-, microbial serine proteinase 2424

Methionine-binding protein,

- Aspergillus nidulans 8

L-Methionine lyase,

- Pseudomonas ovalis 5961

Methionine sulphitamine,

- bacteriostat 2111

Methioninyl adenylate,

- Pseudomonas acidovorans 4666

- Pseudomonas aeruginosa 4666

- Pseudomonas fluorescens 4666

- Pseudomonas putida 4666

- Pseudomonas testosteroni 4666

- Salmonella typhimurium 4666

Methiram,

- Lophodermium pinastri, pine 1146

Methocel,

- degradation, activated sludge 2554

Methodology,

- 750-793, 1539-1613, 2356-2402, 3149-3213, 3936-4014, 4914-4994, 5818-5871, 7530-7589, 8263-8299, 9245-9304, 10506-10662 1616 1617 1618 2405 2409 2410 2411 3222 7591 9307 9311

3-Methoxy-2,5,7-trihydroxy-1,4-naphthoquinone,

- Cercospora 7826

3-(2-Methoxy-4-formylphenoxy)-1,2-propanediol,

- microbial degradation 3367

4-Methoxy-benzene-diazonium fluoroborate method

- F-2 toxin 990

10-Methoxycamptothecin,

- Ophiorrhiza mungos extract, antiviral agent

- 8995

Methoxychlor,

- estuarine water bacteria 4884

- microbial degradation 8458

Methoxyspheroidene,

- Rhodopseudomonas spheroides 7679

Methoxyspheroidenone,

- Rhodopseudomonas spheroides 7679

o-Methoxyphenol,

- polymerization, Rhizoctonia praticola phenol

- oxidase 3305

5-Methoxysterigmatocystin,

- Aspergillus versicolor, high-speed liquid

- chromatography 6146

Methra,

- seed, fungi 1017

Methyl

- 1-(3,4-dichlorobenzyl)-2,3-dioxoisonipecotat

- e,

- fungicide 1238

Methyl

- 1-(butylcarbamoyl)-2-benzimidazole-carbamate

- see Benomyl

Methyl-2-benzimidazole carbamate,

- + dichloromethane, seed dressing, soybean

- 2031

- + N-nitroso-N-cyclohexylhydroxylamine,

- fungicide 2053

- Ceratocystis ulmi 4534

- Diplocarpon rosae, rose 2806

- phytopathogenic bacteria/fungi, plant

- protection 7222

- Septoria leucanthemi, Killian daisy 3570

1-Methyl-2-nitro-5-vinylimidazole,

- antimicrobial agent 8096 8097

N-Methyl-2-pyrrolidone,

- + thiabendazole, fungicide, plant protection

- 5433

2-Methyl-4,6-dinitrophenol,

- milk/milk product microbiology 1725

2-Methyl-4-chlorophenoxyacetic acid,

- milk/milk product microbiology 1725

4-(2-Methyl-4-chlorophenoxy)butyric acid,

- milk/milk product microbiology 1725

3-(1-Methyl-5-nitro-2-imidazolyl-methylideneami

- no)-2-oxazolidinone,

- Pasteurella/Yersinia 2114

N-Methyl-Salpa-tomatinin-3beta-ol,

- dehydrogenation, Nocardia restrictus 9439

Methyl 6-methoxyphenazine-7-carboxylate,

- Streptomyces luteoreticuli 4036

Methyl benzimidazol-2-yl carbamate,

- degradation, Aspergillus nidulans 5194

- fungicide 2951

Methyl benzimidazole carbamate,

- Botrytis cinerea, grapevine 4515 5425

Subject index

- Methyl benzoic acid anilide,**
fungicide, plant protection 1109
Sclerotium rolfsii, sugarbeet 1110
- Methyl bromide,**
+ chloropicrin, Verticillium albo-atrum,
pistachio 5362
microbicide, nuts 8553
partial soil sterilant, Plasmodiophora
brassicae, crucifer 5424
Sclerotium rolfsii, iris 9967
soil, Cylindrocylindrium floridanum 2899
soil fumigation, bacteria 458 459
soil fumigation, Fusarium oxysporum, spinach
1951
soil fumigation, Pythium, spinach 1951
soil fungistasis 4610
- Methyl formate,**
mycotoxin neutralisation, antifungal agent
4253
- Methyl isothiocyanate,**
partial soil sterilant, Plasmodiophora
brassicae, crucifer 5424
- 2-Methyl-L-arginine,**
Streptomyces 1424 1425
- 2-Methyl-L-ornithine,**
Streptomyces 1425
- N-Methyl-N-3-methylthioureaidophenylthiourea,**
antiviral agent 4686
- N-Methyl-N-arylthiourea,**
derivatives, antiviral agent 4686
- 2-Methyl-naphthalene,**
marine bacteria 479
- N-Methyl-oligopeptide,**
antibacterial agent/antifungal agent 535
- Methyl-p-hydroxybenzoic acid ester,**
bactericide 4653
- Methyl paraben,**
Staphylococcus aureus, intermediate moisture
food 1782
- Methyl-parathion,**
estuarine water bacteria 4884
- Methyl partricin,**
stability 645
- 1-N-Methyl-pseudouridine,**
Streptomyces platensis 9449
- S-Methyladenosylhomocysteamine,**
Escherichia coli adenosylmethionine
decarboxylase 5916
- Methylamine,**
Methylomonas methanolica, biomass/protein
5900
Pseudomonas, biomass/protein 5900
Pseudomonas methylotropha, biomass/protein
5900
Pseudomonas rosea, biomass/protein 5900
- Methylamine dehydrogenase,**
Methylomonas methyllovora 6903
Pseudomonas 1662
- 9-Methylaminoacridine,**
derivatives, antibacterial agent 3691
- Methylation,**
cinnamic acid derivatives, Lentinellus 8432
cinnamic acid derivatives, Lentinus 8432
- 2-Methylbenzanilide,**
fungicide, plant protection 2797
- 3-Methylbenzoate,**
methylcatechol, Pseudomonas, furan-2-acetic
acid derivatives 8943
- N-Methylcarbamate,**
N-nitroso derivatives, mutagenicity assay,
Escherichia coli/Bacillus subtilis 3965
- Methylcatechol,**
3-methylbenzoate, Pseudomonas, furan-2-acetic
acid derivatives 8943
- 3-Methylcatechol,**
Acinetobacter calcoaceticus catechol
1,2-dioxygenase 5924
Alcaligenes eutrophes catechol
1,2-dioxygenase 5924
- 3-Methylcatechol (Contd),**
Arthrobacter crystallopoietes catechol
1,2-dioxygenase 5924
Arthrobacter poescens catechol 1,2-dioxygenase
5924
Brevibacterium flavum catechol
1,2-dioxygenase 5924
Nocardia opaca catechol 1,2-dioxygenase 5924
Pseudomonas aeruginosa catechol
1,2-dioxygenase 5924
Pseudomonas oleovorans catechol
1,2-dioxygenase 5924
- Methylcellulose,**
degradation, activated sludge 2554
- Methylcitrate synthase,**
Candida lipolytica 2482
- Methylcladinose,**
erythromycin/erythromycinamine, thin-layer
chromatography 6605
- o-Methyldihydrosterigmatocystin,**
carbon-13 nuclear magnetic resonance
spectroscopy 7054
- Methylene bis(4-chlorophenol),**
monochloroacetate esters, preservative 4614
- Methylene bishthiocyanate,**
bactericide, industrial water systems 1495
- 24(28)Methylene reductase,**
Saccharomyces cerevisiae 5077
- 3-Methyleneoxindole,**
menovirus 6522
- N-Methylglutamate dehydrogenase,**
Pseudomonas aminovorans 6904
- Methylisocitrate lyase,**
Candida lipolytica 3286 8374
- Methylmalonyl-CoA mutase,**
Protoaminobacter ruber 4099
- 5-Methylmercapto-2-deoxyuridine,**
herpes simplex virus 4127
- Methylococcus,**
methane chemostat culture 10097
- Methylococcus capsulatus,**
methane oxidation 473
methanol 3235
nitrogenase, acetylene reduction test 2380
protein 9342
- Methylocystis,**
methanol 3235
- Methylomonas,**
protein, methanol, formaldehyde 5901
- Methylomonas flagellata,**
protein, methane 2914
- Methylomonas M15,**
3-hexulosephosphate synthase 849
- Methylomonas methanica,**
coal, methane oxidation 8929
methane culture, oxygen 5518
- Methylomonas methanolica,**
biomass 5884
biomass/protein, formaldehyde 5900
biomass/protein, formate 5900
biomass/protein, methanol 5900
biomass/protein, methylamine 5900
polysaccharide 5884
protein, methanol, food, animal feed 9341
L-tryptophan 2425
- Methylomonas methylotropha,**
pig feed 6100
protein, pig feed 5241
- Methylomonas methyllovora,**
methylamine dehydrogenase 6903
- Methylomonas rubrum,**
methane oxidation 2915
- Methylophilus methylotrophus,**
methanol, chicken feed 9617
methanol, turkey feed 9617
protein, methanol 9340
- Methylosinus,**
methanol 3235
- Methylosinus sporium,**
methanol dehydrogenase 1661

Subject index

- thylosinus trichosporium,**
acetone 2095
- methane mono-oxygenase** 6902
- Methylpentanoic acid,**
chromatography gas internal standard,
microbial products 7545
- Methylphenol,**
polymerization, *Rhizoctonia praticola* phenol
oxidase 3305
- Methylpseudouridine,**
Streptomyces platensis 5113
- ethylrosaniline,**
antifungal agent, animal feed 5245
- antimicrobial agent, animal feed 2603
- Methylsalinomycin,**
structure 10389
- Methylsterigmatocystin,**
carbon-13 nuclear magnetic resonance
spectroscopy 7054
- Methylstreptimidone,**
Streptomyces, antifungal agent 649
- lpha-Methylstyrene,**
antifungal agent 8991
- Methylsulphinylxanthone-2-carboxylic acid,**
7-methylthioxanthone-2-carboxylic acid
sulphur oxidation, *Calonectria*
decora/*Aspergillus niger*/*Streptomyces*
armentosus 9423
- (Methylthio)-1-propanol,**
Saccharomyces cerevisiae 4136
- Methylthio-5-(3-iodopropargyloxy)-pyrimidine,**
antifungal agent 3705
- (Methylthio)-propanal,**
Saccharomyces cerevisiae 4136
- (Methylthio)-propylacetate,**
Saccharomyces cerevisiae 4136
- Methylthioacrylic acid,**
Streptomyces lincolnensis 4035
- Methylthioadenosine,**
fungal 1687
yeasts 871
- Methylthiophan-3-one,**
Saccharomyces cerevisiae 4136
- Methylthioxanthone-2-carboxylic acid,**
sulphur oxidation, *Calonectria*
decora/*Aspergillus niger*/*Streptomyces*
armentosus,
7-methylsulphinylxanthone-2-carboxylic acid
9483
- etiram,**
Lophodermium pinastri, pine 1151
- etisazone,**
arenavirus 2122
- etoxuron,**
soil microorganisms 2087
- etribuzin,**
microbial degradation, soil 3655
- etro tunnel,**
Thiobacillus ferrooxidans/*Thiobacillus*
thiooxidans 4612
- etronidazole,**
Actinomyces israelii 7369
anaerobic bacteria 2994 7323 7375
- Arachnia propionica* 7369
- Bacteroides* 8068
- Bacteroides fragilis* 2166 8069
- Clostridium* 8069
- Peptostreptococcus* 8069
- etrosideros collina,**
Phytophthora cinnamomi 8861
- ettwurst,**
preservation 8550
- evinphos,**
Fusarium graminearum, zearalenone 2636
- exican pickle poppy,**
Cercosporidium guianense 4394
Deightonella argemonensis 4394
- ezolocillin,**
+ gentamicin, antibacterial agent 7383
+ sisomicin, antibacterial agent 7383
anaerobic bacteria 2994
- Mezlocillin(Contd),**
Bacteroidaceae 10265
- 6-MFA,**
Aspergillus ochraceus, foot-and-mouth disease
virus 6516
- MGK 264,**
Fusarium graminearum, zearalenone 2636
- Miconazole,**
antibacterial agent/antifungal agent 2974
antifungal agent, *Candida albicans* 2952
antifungal agent, *Candida parapsilosis* 2952
antifungal agent, *Candida tropicalis* 2952
antifungal agent, culture medium 3706
antifungal agent, *Torulopsis glabrata* 2952
assay, *Candida stellatoidea* 5572
Candida albicans 6513 10171
Saccharomyces cerevisiae 6513
- Miconazole nitrate,**
antifungal agent 2970
- Micro-Compu-Pet,**
10509
- Micro-Drop test,**
yeasts 1593
- Microascus trigonosporus,**
9-oxo-13-prostenoic acid hydroxylation 3326
- Microbacterium,**
cyclic AMP 5118
pasteurised milk 7795
sublimation dehydration preservation 2951
vacuum-packaged beef 6127
- Microbacterium ammoniaphilum,**
L-lysine 817
- Microbacterium flavum,**
co-enzyme A 2506
- Microbacterium glutamicus,**
L-lysine 8320
- Microbacterium lacticum,**
milk, spray-drying 7736 7737
- Microbacterium thermosphaetum,**
dry sausage 2400 9580
sausage 6081
vacuum-packaged beef 7803
vacuum-packaged lamb 7804
- Microbe thermistor,**
immobilised microorganisms 9318
- Microbial degradation,**
108-123, 899-905, 1707-1712, 2550-2556,
3363-3372, 4166-4183, 5185-5197, 6019-6023,
6975-6984, 7706-7712, 8453-8459, 9520-9530
- Microbial film fermenter,**
3552
- Microbial film reactor,**
5850
- Microbial resistance,**
487-490, 1191-1211, 2096-2105, 2921-2927,
3667-3677, 4625-4648, 5522-5543, 6470-6491,
7293-7314, 8046-8057, 8944-8966, 10112-10131
- Microbial toxins: Mycotoxins,**
223-242, 972-991, 1799-1812, 2619-2638,
3427-3439, 4253-4270, 5259-5281, 6131-6148,
7054-7076, 7808-7841, 8554-8576, 9688-9723
- Microbial toxins: Others,**
243-247, 992-996, 1813-1830, 2639-2654,
3440-3453, 4271-4286, 5282-5292, 6149-6160,
7077-7099, 7842-7860, 8577-8587, 9724-9744
- Microbiocide,**
1254
4-chlorophenol-3,5-dimethyl 3934
iodophors, sugarbeet surface disinfection
744
methyl bromide, nuts 8553
monoformyl-diaminomaleonitrile 2130
peracetic acid, tonometer disinfectant 3917
soil microorganisms, straw degradation 8925
8926
soil microorganisms, straw degradation,
nitrification 8929
straw/alfalfa degradation, soil
microorganisms 8927

Subject index

- Microbiological collector,**
 Spicaria violacea, radioisotope enrichment 4987
- Microbiological detection apparatus,**
 759
- Microbiological detection device,**
 773
- Microbiostat,**
 sulphenylated oxime-carbamate derivatives 9003
- Microcalorimeter,**
 flow, chemostat culture 7562
- Microcalorimetry,**
 bacterial blood culture medium 10523
 flow, *Klebsiella aerogenes* culture thermogram 7563
 flow, *Saccharomyces cerevisiae* frozen preservation 2982
 Mycoplasmatales 3210
 tetracyclines, *Escherichia coli* 2233
- Microcalorimetry cell,**
 flow, *Debaryomyces hansenii*, microorganisms 7581
- Microcin,**
 yeasts 2170
- Micrococcaceae,**
 cattle stall 2690
 dry sausage 182
 milk 916
 penicillin derivatives 1356
- Micrococin P,**
 thiocillin I/thiocillin II/thiocillin III 2270
- Micrococcus,**
 Actinomyces recifensis lytic enzyme 2480
 activated sludge, non-ionic surfactant degradation 1709
 air-dried beef 172
 alkane 10096
 Awshari cheese 6060
 bacteriocins 2439
 cheese 152
 chicken manure, composting 8222
 dry sausage 182
 estuarine water/sediment, petroleum degradation, numerical taxonomy 10109
 farm bulk milk tanks 6038
 frankfurter 7017
 alpha-galactosidase 3271 5945
 garlic 10143
 heat-resistant, scalding tank water 1530
 histidine decarboxylase 3283
 hop oil emulsion, beer 5168
 isoamylase 9404
 Kefalotyri cheese 9570
 marine, petroleum degradation 10111
 milk 140
 nitrate reduction, dry sausage 9581
 nitrofurantoin-containing selective medium 3995
 oxolinic acid 5563
 pasteurised milk, nitrate reduction test 137
 phage typing 6789
 polyphosphate hydrolysis, meat product 2585
 pork fat lipolysis 930
 sausage, heat treatment 220
 Ulloa cheese 9572
 beta-ursolic acid 6532
 vacuum-packaged trout, gamma-irradiation 5258
 waste treatment 5786
 waste treatment, protein/enzymes/vitamins 2313
 white pomfret, gamma-irradiation 4245
 wild rice fermentation 2549
- Micrococcus aurantiacus,**
 fermented meat product 6082
- Micrococcus aureus,**
 n-oxypyridyl thiol aluminium derivatives 749
 virginiamycin 2275
- Micrococcus candidus,**
 sheep cheese 6066
- Micrococcus caseolyticus,**
 protease 6067
 protease, cheese 7004
 sheep cheese 6066
- Micrococcus citreus,**
 chalcone analogues 8071
- Micrococcus conglomeratus,**
 amino acid decarboxylase, aromatic ethylamines 13
- Micrococcus denitrificans,**
 respiration, Electrode monitoring 3953
 thiamine monophosphate phosphohydrolase 6926
- Micrococcus flavus,**
 aplastomycin 5717
 asukamycin 5719
 bacitracin assay, animal feed 4231
 garosimycin 1419
 juvenimicins 7433
 milk 139
 negamycin analogues 642
 oxamicetin 3073
- Micrococcus freudenreichii,**
 alkane 10098
 lipase, Cheddar cheese 157
- Micrococcus glutamicus,**
 threonine 8323
- Micrococcus luteus,**
 7783
 antibiotic residues assay, chicken 4230
 Aristida oligantha rhizosphere, nitrogen fixation, *Rhizobium/Azotobacter* 2075
 culture medium 9276
 endonuclease 9388
 erythromycin, antibiotic sensitivity testing 8112
 immobilised, histidine ammonia-lyase, L-histidine, uronic acid 7630
 oleandomycin, antibiotic sensitivity testing 8112
 polynucleotide phosphorylase, RNA degradation 7712
 skin, soap/deodorant soap 5816
 spiramycin, antibiotic sensitivity testing 8112
 streptomycin, antibiotic sensitivity testing 8112
 sulphonamide assay, food 5198
 tyrosine decarboxylase/histidine decarboxylase 8493
- Micrococcus lysodeikticus,**
 acylase, 7-aminocephalosporanic acid derivatives 2207
 adenosine triphosphatase, atrebrin 5561
 cephamycin-type antibiotic 7399
 enniatin 652
 gramicidin A/gramicidin A analogues 4804
 membrane, gramicidin S 5739
 membrane protein, cytochrome 2436
 NADH dehydrogenase 2484
 penicillanic acid derivatives 606
 valinomycin 652
- Micrococcus perlitreus,**
 amino acid decarboxylase, aromatic ethylamines 13
- Micrococcus pyogenes,**
 pyridazine-2-oxide derivatives 3932
 quinoxaline derivatives 5598
 Streptomyces antibiotics 9025
 Streptomyces orientalis 3082
- Micrococcus radiodurans,**
 culture medium 9276
 thymine-less death, chloramphenicol/rifampicin 4745
- Micrococcus radiophilus,**
 culture medium 9276
- Micrococcus roseus,**
 acylase, 7-aminocephalosporanic acid derivatives 2207

Subject index

- Micrococcus roseus**(Contd),
 culture medium 9276
 cysteine desulphhydrase, L-cysteine 6829
 penicillin amidase, 6-aminopenicillanic acid 598
 penicillin amidase, + penicillin, 6-aminopenicillanic acid 4763
- Micrococcus rubens**,
 co-enzyme A 2506
- Micrococcus species ATCC 398E**,
 F1 ATPase, affinity chromatography 1635
- Micrococcus thermophilus**,
 waste treatment 5786
 waste treatment, protein/enzymes/vitamins 2213
- Micrococcus varians**,
 nuclease, culture medium 1665
- Microculture plaque assay**,
 liquid antibody, viruses 10626
- Microculture plaque titration**,
 viruses 10639
- Microcycylus eburneus**,
 vitamin B12, methanol 9475
- Microcycylus polymorphum**,
 amino acid 9344
 protein, food, animal feed 9344
- Microcycylus ulei**,
 rubber 1947 1948 4289 4414
- Microdilution transfer plate technique**,
 antibacterial agent synergy 5627
 antifungal agent synergy 5627
- Microimmunofluorescence**,
 Chlamydia trachomatis antibody 1564
- Micromonospora**,
 aminoglycoside antibiotics, antibacterial agent 3755
 cellulose degradation 8454
 fortimicin A, antibacterial agent 8181
 soil, aldrin, degradation, exo-dieldrin 10074
 soil, novobiocin isolation medium 5471
- Micromonospora chalcea**,
 juvenimicins, antibacterial agent 7433
 juvenimicins, structure 7434
- Micromonospora echinospora**,
 soil, humate 2859
 soil, montmorillonite 2859
- Micromonospora floridensis**,
 actinomycin antibiotic 70591, antibacterial agent/antifungal agent 1389
- Micromonospora grisea**,
 verdamycin 653
 verdamycin 1 + sisomicin + antibiotic G-418 + gentamicin A complex 562
- Micromonospora inyoensis**,
 aminoglycoside antibiotic 66-40 C 10336
 antibiotic 66-40B, antibacterial agent 10335
 antibiotic 66-40B, antibacterial agent/antiviral agent 10335
 sisomicin 2171 6648 6650
 sisomicin, antibacterial agent 6649
 sisomicin components 5761
 sisomicin, garamine derivatives 612
- Micromonospora olivasterospora**,
 fortimicin A, antibacterial agent 8181
- Micromonospora purpurea**,
 2-hydroxygentamicin C 6597
 2-hydroxygentamicin C, antibacterial agent 9093 9094
 antibiotic J1-20A, antibacterial agent 10343
 antibiotic J1-20B, antibacterial agent 10343
 gentamicin 1370 10312
 gentamicin aminocyclitol analogues, antibacterial agent 6599
 gentamicin C 6598
 gentamicin C1 3786
 gentamicin C1a 3786
 gentamicin C2 3786
 gentamicin C2a, antibacterial agent 10316
 gentamicin complex, fluorimetry 10313
 gentamicin, culture medium 9091
- Micromonospora purpurea**(Contd),
 gentamicin, streptomycin resistance 9092
 gentamicin X2 613
 gentamicins, antibacterial agent 9090
 Micromonospora inyoensis 2171
 soil, humate 2859
 soil, montmorillonite 2859
- Micromonospora rhodorangae**,
 antibiotic G-418 1400
 sisomicin transformation, Micromonospora rhodorangae 10262
- Micromonospora rosaria**,
 rosamicin 6646 7449
 rosamicin, monoesters, antibacterial agent 5760
- Micromonospora viridifaciens**,
 antibiotic 37,504, antibacterial agent 10333
- Micromonospora vulgaris**,
 protease 2496
- Micromonospora zionensis**,
 antibiotic G-52 1398 1399
 antibiotic G-52, antibacterial agent 1397 10342
- Micronomospora**,
 cloning 785
- Micropera fosteri**,
 Douglas fir 6383
- Micropera lunaspora**,
 Douglas fir 6383
- Micropera pinicola**,
 Douglas fir 6383
- Micropera uncinata**,
 Douglas fir 6383
- Micropolyspora faeni**,
 esterase 25
 mouldy hay, sedimentation chamber 3163
- Microrespirometer chamber**,
 cell/organ culture 1602
- Microscope**,
 operating, formaldehyde sterilisation 7350
- Microscope growth chamber**,
 Ustilago bullata 9298
- Microscope tray**,
 polystyrene, immunofluorescence 3159
- Microscopy**,
 794 9310
 bright-field electron, microorganisms 5827 5828
 dark-field, bacterial flagella 3951
 electron 4028
 electron, Acetobacter xylinum, cellulose microfibrils 8405 8407
 electron, Actinomyces parvullus, actinomycin D 4791
 electron, analytical, fungi 10607
 electron, Bacillus cereus, phenethyl alcohol 1218
 electron, Bacillus megaterium, phenethyl alcohol 1218
 electron, bacteria, embedding/orientation 4927
 electron, bacterial cell envelope, ultracyotomy 10537
 electron, bean yellow stipple virus, bean 7868
 electron, bean yellow stipple virus, cowpea 7868
 electron, cocksfoot streak virus, cocksfoot 6210
 electron, Escherichia coli, ampicillin 1360 4722
 electron, Escherichia coli, cephaloridine 4722
 electron, Escherichia coli, gentamicin 4722
 electron, Escherichia coli, kanamycin 4722
 electron, fescue leaf streak mosaic virus, giant fescue 4336
 electron, industrial microbiology 10506

Subject index

Microscopy(Contd),

electron, *Klebsiella pneumoniae* capsule, fixation 5773
 electron, maize mosaic virus, corn 8632
 electron, microbiology 2410
 electron, *Mycobacterium leprae*, mass 10575
 electron, mycoplasma-like organisms, Delphinium 4387
 electron, nodule, *Rhizobium meliloti* + alfalfa 6442
 electron, Pangola stunt virus, Pangola grass 9795
 electron, phenylethanol/polyisorbate 80, *Pseudomonas aeruginosa*, benzalkonium chloride 6496
 electron, *Phoma tracheiphila*, sour orange 9836
 electron, *Phytophthora infestans*, potato 6288
 electron, *Plasmopara viticola*, grapevine 5374 5375
 electron, poplar mosaic virus 6399
 electron, potato, *Phytophthora infestans* 3524
 electron, *Pseudomonas aeruginosa*, quaternary ammonium compound resistance 2096
 electron, *Puccinia recondita tritici*, wheat 4356
 electron, *Staphylococcus aureus*, rifampicin 9099
 electron, *Streptococcus faecalis*, phenethyl alcohol 1218
 electron, tea, *Exobasidium vexans* 3531
 electron, tomato spotted wilt virus, tobacco 7178
 electron, *Xanthomonas citri*, Citrus 9832
 flexible plastic coverslip/slide 3940
 fluorescence 5826 9310
 fluorescence, bacteria, Nuclepore filter 9258 9263
 fluorescence, beech, fungal degradation 5466
 fluorescence, fungal plant disease 7865
 fluorescence, machine staining/manual staining, acid-fast bacteria 4955
 fluorescence, *Methanobacteriaceae* 6777
 fluorescence, mycoplasma-like organism, apple proliferation disease 1047
 fluorescence, mycoplasma-like organism, pear decline 1047
 fluorescence, plant disease fungi, calcofluor 10609
 fluorescence, spruce, fungal degradation 5466
 fluorescent, *Corynebacterium insidiosum*, alfalfa 6773
 immuno-India ink method, *Aeromonas salmonicida*, fish furunculosis 9267
 microbiology 3222
 phase-contrast, rickettsia-like organism, peach phony disease 9840
 quantitative electron, viruses, mass, molecular weight 7587
 scanning electron 5007
 scanning electron, *Alternaria kikuchiana*, conductive staining 761
 scanning electron, *Armillaria mellea*, wood 6400
 scanning electron, bacteria, Nuclepore filter 9263
 scanning electron, *Ceratocystis ulmi*, wood 6400
 scanning electron, *Erysiphe graminis hordei*, conductive staining 761
 scanning electron, *Fomes fomentarius*, horse chestnut 4537
 scanning electron, *Fomes fomentarius*, wood 6400
 scanning electron, fungal fructification sections 3197
 scanning electron, fungi, cyrofracture 10606

Microscopy(Contd),

scanning electron, *Fusarium solani*, soil 2869
 scanning electron, *Listeria monocytogenes* freeze-thawing 4704
 scanning electron, *Merulius lacrymans*, wood 6400
 scanning electron, *Microsphaera diffusa*, soybean 9771
 scanning electron, *Pasteurella pestis vaccine* 3331
 scanning electron, *Piptoporus betulinus*, birch 3616
 scanning electron, *Piptoporus betulinus*, wood 6400
 scanning electron, *Sclerotinia sclerotiorum*, pea 6173
 scanning electron, *Sclerotinia sclerotiorum*, potato 6173
 scanning electron, starch granule hydrolysis, *Aspergillus niger* glucoamylase 844
 scanning electron, starch granule hydrolysis, *Rhizopus niveus* glucoamylase 844
 scanning electron, *Stereum hirsutum*, wood 6400
 scanning electron, *Trametes confragosa*, wood 6400
 scanning transmission electron 9310
 scanning transmission electron, microbiology 6753
 stained urine smears, urine culture 3964
 transmission electron, *Fusarium solani*, soil 2869
 transmission electron, *Listeria monocytogenes* freeze-thawing 4704
 transmission electron, microbiology 2410
 transmission electron, *Mycobacterium* 5846
 transmission electron, *Mycobacterium fortuitum* 5846
 transmission electron, *Mycobacterium kansasii* 5846
 transmission electron, soil microorganisms 8866
 ultraviolet, beech, fungal degradation 5466
 ultraviolet, spruce, fungal degradation 5466
Microslide,
Staphylococcus enterotoxin B 1827
Microslide gel double diffusion,
Staphylococcus aureus enterotoxin 995

Staphylococcus aureus enterotoxin A/enterotoxin B 3452
Microsphaera,
Ligustrum japonicum 318
 powdery mildew, plants 5298
 soybean 2682
Microsphaera alni,
 lilac, benomyl 10008
Microsphaera alphitoides,
 oak 2850
Microsphaera begoniae,
 begonia 2729
Microsphaera diffusa,
 cowpea 3471
 soybean 3471 6196 6200 8616 9771
 soybean, resistance 8616
Microsphaera penicillata,
 broad bean 8606
Microsphaera rubi,
 blackberry 4372
Microsphaeria alni,
 lilac 8704
 lilac, resistance 8704
Microsporon,
 see also *Microsporum*
 imidazolyl-O,N-acetal derivatives 3704
 triazole derivatives 2960
Microsporon audouinii,
 thiadiazolo-benzimidazole derivatives 8081

Subject index

- Microsporon canis**,
iodine disinfectant 8253
thiadiazolo-benzimidazole derivatives 8081
- Microsporon felineum**,
imidazolylacetic acid amides 515
phenyl-imidazolyl-fatty acid derivatives 8076
triazole derivatives 2960
- Microsporon gypseum**,
thiadiazolo-benzimidazole derivatives 8081
- Microsporon lanosum**,
dinitro-bithiophene derivatives 8098
- Microsporum**,
see also *Microsporon*
allicin 7337
clotrimazole 528
diaryl-pyridyl-imidazole methanes 4671
phacidin 10398
- Microsporum audouinii**,
2-aminotridecane derivatives 3702
fungicide 1238
nitrothiazole derivatives 1269
phenoxyacetamido-nitrothiazole derivatives 2973
tetramethylene bis(methanethiosulphonate) 4690
- Microsporum canis**,
2-aminotridecane derivatives 3702
cycloalkyl-4-oxoquinoline-3-carboxylic acid derivatives 2141
D-3,6-diaminohexanoic acid
2-(carboxymethyl)-2-methylhydrazine 2151
1,3-dioxane-4,6-dione derivatives 9007
fungicide 1238
melanine pigment 5132
perdeuteriated fatty acids 1232 1233
Rumex maritimus extract 3696
siccantin 7450
veterinary topical products 2970
- Microsporum felineum**,
nitrothiazole derivatives 1269
phenoxyacetamido-nitrothiazole derivatives 2973
thionosalicylic acid anilide derivatives 3726
- Microsporum gypseum**,
1-[4-(alkoxyphenoxy)-butyl]-1-ethyl-piperidin-ium bromide 2977
aculeacins 8175
alpha-aminolaurophenone/alpha-aminolaurophenone derivatives 5571
2-aminotridecane derivatives 3702
Curcuma caesia oil 5567
Curcuma zedoaria extract 3695
glutaraldehyde 5568
keratinase 6815
nitroperhydropyridodiazepine derivatives 2976
protease 6815
pyrano-indole derivatives 7349
rapamycin 1437
S-alkylthiuronium halides 6527
soil 6423
- Microsporum nanum**,
siccantin 7450
- Microstroma juglandis**,
black walnut 2051
walnut, fungicide 5465
- Microwave cooking**,
pork, bacteria 6080
- Microwave irradiation**,
Nicotiana tabacum, tobacco seed treatment 9990
- Microwave sterilisation**,
packaged food 1777
- Milcozyme**,
beer cheese 8496
Camembert cheese 8497
cheese 8495
- Midecamycin**,
9501
diacetyl- 1426
- Migillin**,
foot-and-mouth disease virus 2262
poliovirus 2262
- Mikamycin B lactonase**,
Streptomyces mitakaensis 2483
- Milcozyme**,
Bacillus polymyxa, cheese 8494
- Mildev**,
barley, resistance 1980
Begonia, resistance 4456
Erysiphe graminis, ryegrass 285
Erysiphe polyphaga, cucumber 4291
Microspheera diffusa, soybean 6196
Oidium manihotis, cassava 7909
Peronospora manshurica, soybean 6196
plant disease, iodine staining 8594
Podospheera leucotricha, apple, tri-2-norbornyltin derivatives 6363
rose, resistance 1096 4472
Sphaerotheca fuliginea, cucumber, fungicide 378
Sphaerotheca mors-uvae, American gooseberry 4292
- Milk**,
4202
acidophilus, Lactobacillus acidophilus 4193
Aeromonas 6993
aflatoxin M1 8563 9702
aflatoxin M1 + aflatoxin G1, assay 7059
aflatoxin M1, cellulose chromatography/thin-layer chromatography 7822
aflatoxin M2 9702
aflatoxins 7817 8562
antibacterial agent 6811
antibiotic residues 1724
antibiotic residues, thin-layer chromatography 1722
antibiotics 1723 7731
antibiotics assay, Sarcina lutea 8479
antibiotics, assay, Sarcina lutea/Bacillus subtilis 5206
Artek plate counter 914
aseptic packaging 8533 8534 8535 8537
aseptic packaging 9569
Bacillus, heat resistance 8482
Bacillus spores 3385
Bacillus stearothermophilus, heat resistance 8483 8484
bacteria 139 8481
bacteria, phospholipase C 5208
bacterial count 135
bacterial enzymes 6997
bacterial fermentation activity testing 2571
bacterial products, gas-liquid chromatography 919
bacteriology 915 916 2568 3383 5210 6037 9536
bacteriology, Cheddar cheese 9558
bottled, bacteria 8539
buffalo, Bacillus 6040
buffalo, beta-casein, Endothia parasitica protease 7001
buffalo, beta-casein, Mucor miehei protease 7001
buffalo, beta-casein, Mucor pusillus protease 7001
beta-casein, Endothia parasitica protease 7001
beta-casein, Mucor miehei protease 7001
Clostridium tyrobutyricum, enrichment/confirmatory medium 917 918
condensed, nisin 8540
distilled water quality, interval plating technique 6755
double reductase test 9537

Subject index

Milk(Contd),

electronic somatic cell count 5207
Escherichia coli, Auto Analyzer method 7729
Escherichia coli, pasteurisation 7800
 falling-film pasteurizer-steriliser 960
 farm bulk tanks, bacteria 6038 6039
 fermentation, lactic acid bacterium 1729
 fermented beverage, *Propionibacterium shermanii*, vitamin B12 + folic acid enrichment 5544
 foot-and-mouth disease virus 9541
 fungi/mycotoxins 920
 heat-sensitive inhibitors 6041
 heat treatment, *Staphylococcus aureus* 9666
 human, bacteria 9542
 hydrolysed, yoghurt, *Streptococcus thermophilus*, *Lactobacillus bulgaricus* 9547
 hygiene 2350 2351 3148 4900 8255
 immobilised protease, cheese 6046
 injured coliforms, recovery medium 145
 iodine, iodophor teat dip 8476
 iodine, iodophor udder wash/teat dip 8475
 lactic acid bacteria 162
 lactic streptococci, *Streptococcus* group D 4197
Lactobacillus acidophilus 6042
 lactose fermentation, *Streptococcus* group N 2570
 lactose, fungal beta-galactosidase 8486
 lactose hydrolysis, immobilised fungal lactase 9412
 lipase, + *Pseudomonas fluorescens* phospholipase C 6998
 long-life 6123
 low-lactose 7738
 mastitic 2566
 mastitic, fermentation, antibiotics, cattle feed 4220
 mastitis 1724 4202
 microbiology 8472
 microbiology, pesticide 1725
 microorganisms 3384 7735
Mucor pusillus protease 70C1
 mycotoxins 224 225
 package, packing machine sterilisation 4234
 packaged, bacteriology 7049
 packaged, microbiology 1786
 packaged, quality, bacteriology 5254
 packaging material sterilisation 8532
 pasteurisation 9668
 pasteurisation, bacteria/viruses 4236
 pasteurised, bacteria 7799
 pasteurised, microorganisms 7735
 pasteurised, nitrate reduction test 137
 pasteurised, cost-pasteurisation bacterial contamination 7798
 pasteurised, psychrotrophic bacteria 9539
 pasteurised, spiral plate count method 136
 pasteurized, bacterial count 7732
 pasteurized, *Staphylococcus aureus*, paper strip method 8473
 pasteurized, *Streptomyces*, isolation medium 7734
 penicillin 1723 3382
 penicillin assay, *Bacillus stearothermophilus* 2565 8477 8478 9538
 penicillin, Delvotest-P 6994
 penicillins, penicillinase 4192
 powder, quality 2412
 powdered, aflatoxins 8562
 powdered, nisin 8540
 preservation 6811
 preservation, hydrogen peroxide 2608
 preservation, lactoperoxidase 2609
 preservation, nisin 961 962
 protein hydrolysis, *Brevibacterium linens*, cheese 5221
 protein hydrolysis, *Propionibacterium shermanii*, cheese 5221

Milk(Contd),

protein hydrolysis, *Streptococcus cremoris*, cheese 5221
 protein hydrolysis, *Streptococcus lactis*, cheese 5221
 proteolysis, *Streptococcus cremoris* 7000
Pseudomonas fluorescens lipase, Cheddar cheese 5225
Pseudomonas fragi lipase, Cheddar cheese 5225
Pseudomonas graveolens 921
 psychrotrophic bacteria 140 141
 psychrotrophic bacteria, proteolysis/lipolysis 142
 psychrotrophic bacteria, *Streptococcus lactis*/*Streptococcus cremoris*, lactic acid 9546
 pyruvate 6036
 pyruvate test 7732
 quality 913 2412
 quality gauge/Wisconsin mastitis test 138
 raw, bacterial counts 2567 8480
 raw, bacteriology 2569
 raw, psychrotrophic bacteria 9539
 refrigerated, bacteria, plate counting 7733
 refrigeration 3425
 resazurin test 7730
 rumen microorganisms, ruminant feed 944
Saccharomyces lactis lactase 4194
Salmonella 4202
 shelf-life 2606
 skim, *Yersinia enterocolitica*, heat resistance 9540
 skin, culture medium, starter bacteria 7746
 somatic cells, membrane filter-DNA test 6995
 soybean, fermented 190
 soybean, *Lactobacillus acidophilus*, yoghurt 5216
 soybean, yoghurt, *Lactobacillus acidophilus*, lysine 5205
 soybean, yoghurt, *Lactobacillus bulgaricus*, lysine 5205
 spiral plate count method 136
 spray-drying, bacteria 7736 7737
Staphylococcus aureus 5209
Staphylococcus aureus, Baird-Parker selective medium 7724
Staphylococcus aureus enterotoxin 5209
Staphylococcus, enterotoxin 2648
Staphylococcus enterotoxin B, radioimmunoassay 6156
 sterilisation 3424
 sterilised, nisin, *Bacillus subtilis*/*Bacillus stearothermophilus* 1785
Streptococcus agalactiae 6996
Streptococcus agalactiae, culture medium 1581
Streptococcus cremoris, autolysis 6043
Streptococcus cremoris cell wall-associated protease 5220
Streptococcus lactis 921
Streptococcus thermophilus, amino acids 9545
Streptomyces, isolation medium 7734
 sulphonamide 143
 sweetened condensed, *Staphylococcus epidermidis* 6999
 T-2 toxin, mass fragmentography 989
 tank lorries, automatic sampling device 3383
 ultra-high temperature 9671
 ultra-high-temperature, aseptic packaging 4235
 ultra-high temperature, microorganisms 3384
 ultra-high temperature, preservation 2607 9667
 ultra-high temperature, quality control 9670
 ultra-high temperature sterilisation 7797 8533 8534 8535 8537 9669
 ultra-high temperature sterilisation, bacterial protease 216
 ultra-high temperature treatment 1783 1784

Subject index

- Milk (Contd),**
ultrafiltered, cheese 2575
viruses 124
Wisconsin mastitis test 8474
- Milk bottle,**
hygiene 2352
- Milk-clotting enzyme,**
Aspidia ramosa, Cheddar cheese 7753
Aspergillus flavus 3316
Bacillus mesentericus 1663 9418
Bacillus polymyxa, casein/cheese 923
Bacillus polymyxa, cheese 6045 8494
Endothia parasitica, casein/cheese 923
Endothia parasitica, cheese 5094 6045 8494
Endothia parasitica, milk beta-casein 7001
microbial, cheese 5094 5222 9559
microbial, isoelectric focusing 9417
microbial, soil, urea 3657
Mucor miehei, casein/cheese 923
Mucor miehei, cheese 5094 6045 8494
Mucor miehei, milk beta-casein 7001
Mucor pusillus, casein/cheese 923
Mucor pusillus, cheese 5094 6045 8494
Mucor pusillus, milk beta-casein 7001
Rhizopus, cheese 6045
Rhizopus oligosporus, Cheddar cheese 5223
- Milk-coagulating enzyme,**
Mucor miehei 9419
- Milk formula,**
hygiene 2352
- Milk industry,**
disinfection 8256
Staphylococcus, enterotoxin 2648
- Milk medium,**
Candida albicans, chlamydospore 7580
- Milk plant,**
hygiene, mastitis 3923
- Milk powder,**
heat-stressed *Staphylococcus aureus*, paper strip method + enrichment medium 5211
Staphylococcus aureus, paper strip method 8473
- Milk product,**
5214 7739
aflatoxins 7817 8562
aseptic packaging 8536
bacteriology 5210
cultured, bacterial culture 922
dahi, colostrum, *Streptococcus/Lactobacillus* 1730
dry, bacteria, lactic acid/pyruvic acid 3386
fermented 7741 9568
fermented, bacterial culture incubator 7539
fermented, starter bacteria 6050 6055 6056
fermented, testing 2571
fermented, vitamins, microbiological assay 1731
foot-and-mouth disease virus 9541
freeze-preserved *Lactobacillus* 6541
freeze-preserved *Streptococcus lactis* 6541
hygiene 3148
Iranian dough 146
lactose, fungal beta-galactosidase 8486
low-lactose 7738
microbiology, pesticide 1725
mycotoxins 225
shelf-life 2606
sour, vitamin B₁₂ *Propionibacterium shermanii* 8487
soured, stabiliser 963
starter bacteria 6049 6054
Streptococcus cremoris, autolysis 6043
Streptococcus diacetylactis, *Streptococcus lactis* 8492
ultra-high temperature 9671
ultra-high temperature, bacteriology 8538
ultra-high temperature, quality control 9670
ultra-high temperature sterilisation 8536
- Milk ring test,**
Brucella abortus, cattle 771
- Milking,**
disinfection 2350
hygiene 2350 2351
hygiene, mastitis 1724
teat dip, antibacterial agent >808
- Milking machine,**
bacteria 7727 7728
bacteriology 9536
mastitis 734
sanitation 3924
- Milking plant,**
bacteria 7727 7728
- Millet,**
finger, virus disease 1869
great, peanut clump virus 6220
Italian, *Uromyces setariae-italica* 3481
pearl, *Cercospora fusimaculans*, culture medium 1022
pearl, *Claviceps fusiformis* 8643
pearl, *Claviceps microcephala* 1021
pearl, *Ephelis oryzae* 1023
pearl, *Helminthosporium sacchari* 1024
pearl, gamma-irradiation, aflatoxin 3432
pearl, *Pseudomonas* 4316
pearl, resistance, *Sclerospora graminicola* 2764
pearl, rhizosphere mycoflora, seed mycoflora 4574
pearl, *Sclerospora graminicola* 1021 1026
pearl, *Sphacelia sorghi* 1027
pearl, + *Spirillum lipoferum*, nitrogen fixation 2893
resistance, *Panicum mosaic virus-St.* Augustine decline strain 6333
resistance, *Pyricularia penniseti* 1025
- Millet, pearl,**
see also Bajra
- Milo disease,**
Periconia circinata, Columbus grass 4345
Periconia circinata, Johnsongrass 4345
Periconia circinata, *Sorghum bicolor* 4345
- Miltox,**
Fusarium oxysporum, lemon post-harvest decay 9916
Sclerophthora rayssiae, corn 6356
- Mima polymorpha,**
frozen erythrocytes 1293
quinolizine-2-carboxylic acid derivatives 4694
quinolizine derivatives 8100
streptomycin A 5763
tobramycin 6656
- Mimosamycin,**
Streptomyces lavendulae, antibacterial agent 2263 2264
- Mimosoideae,**
+ *Rhizobium*, nodulation, nitrogen fixation 8900
- Mimusops elengi,**
Epicoccum purpureum 3615
- Mimusops hexandra,**
Pestalotiopsis neglecta 2749 4395
- Minca medium,**
Escherichia coli K99 antigen 5843
- Mine,**
rubberized ventilation tube, fungi, degradation 4180
- Mine spoil,**
pyritic, microbial acids 7284
- Mineral microbiology,**
460-467, 1180, 1181, 2088, 2089, 2900-2905, 3658, 3659, 4612, 4613, 5507-5513, 6454-6458, 7283, 7284, 8039, 8929-8933, 10083-10090 2855 4144 4183 4529 5473 5514 6408 6409 6414 6415 7287
- Minitek-Bioquest system,**
anaerobic bacteria 3958
- Minitek Differential System,**
Salmonella/Enterobacteriaceae, food 9534

Subject index

- Minitek system,**
Enterobacteriaceae 3974 10557
Lactobacillus 9274
Salmonella 4565
- Minocycline,**
anaerobic bacteria 2994 9038
antibacterial agent 2236 2969
antitoxic sensitivity testing 5625
Bacteroides fragilis 2996
Corynebacterium minutissimum 1306
Corynebacterium parvum 1306
Escherichia coli 1382 3054
Escherichia coli, microcalorimetry 2233
fluorometric assay 7421
Listeria monocytogenes 5629
Propionibacterium acnes 1306
Propionibacterium avidum 1306
Propionibacterium granulosum 1306
resistance, Escherichia coli 6475
sensitivity testing, anaerobic bacteria 10232
Staphylococcus aureus 2105
Staphylococcus aureus, resistance 2105
Ureaplasma urealyticum 5626
Vibrio cholerae 5702
Vibrio parahaemolyticus 5702
- Minomycin,**
Streptomyces hygroscopicus 9142
- Minosaminomycin,**
 2171
antibacterial agent 10383
- Mint,**
Japanese, Marasmiellus epichnos 4396 4397
- Mirabilis jalapa,**
witches' broom, mycoplasma-like organism 5379
Xanthomonas mirabilis 320
- MIRCENS,**
 3155
- Mirex,**
derivatives, estuarine bacteria 723
estuarine bacteria 723
- Miso,**
Aspergillus oryzae enzyme 6018
food 4191
lipids 9597
- Mistletoe,**
dwarf, resin disease, fungi 4543
- Mite,**
 + *Fusarium poae, carnation* 1916
ryegrass mosaic virus, Italian ryegrass 1036
wheat streak mosaic virus, immunofluorescence 7891
- Mithramycin,**
antitumour antibiotic 5998
DNA 6941
Streptomyces atroolivaceus 6642
- Mitochondrion,**
Candida lipolytica, citric acid 5022
microbial, immobilisation, calcium alginate gel 6819
yeast 4030
- Mitomycin A,**
Streptomyces caespitosus 3072
- Mitomycin B,**
Streptomyces caespitosus 3072
- Mitomycin C,**
 + *anthracycline antibiotics, bactericide* 5747
7-aminomitosane-9a-sodium sulphonate 3812
Clostridium perfringens, bacteriocin 8328
Streptomyces caespitosus 3072
- Mitosane,**
derivative, mitomycin C 3812
- C-Mitotic agent,**
Bacillus thuringiensis exotoxin 2653
- Mitragyna parvifolia,**
Cercospora mitragynae 5460
- ML-236A,**
Penicillium citrinum, Cholesterogenesis inhibitor 8431
- ML-236B,**
Penicillium citrinum, Cholesterogenesis inhibitor 8431
- ML-236C,**
Penicillium citrinum, Cholesterogenesis inhibitor 8431
- MM virus,**
interferon 519
- Moenomycin,**
Streptomyces 10384
Streptomyces aureofaciens, fast neutron irradiation 9027
- Molasses,**
ethanol fermentation 5165
- Moldin,**
yeasts 2170
- Molecular weight,**
Clostridium botulinum toxin 7842
Clostridium oedematiens toxin 7842
Clostridium perfringens toxin 7842
Clostridium tetani toxin 7842
Corynebacterium diphtheriae toxin 7842
DNA, fluctuation spectroscopy 2362
viruses, quantitative electron microscopy 7587
- Mollisia,**
Norway spruce 8004
Norway spruce, Fomes annosus 7237
- Molluscum contagiosum virus,**
swimming pool 3143
- Molybdenum,**
rhizosphere bacteria 6415
soil nitrogen fixation 8024
- Momordica charantia,**
Sclerotium rolfsii 7143
Sphaerotheca fuliginea 1056
- Monactin,**
ion complexation, Raman spectroscopy 6617
- Monamycin,**
Streptomyces jamaicensis 3813
- Monarda didyma,**
Erysiphe monardae 8707
Oidium 304
- Monascin,**
Monascus, red rice wine 6947
- Monascus,**
fermented food 4190
pigments, red rice wine 6947
- Monascus anka,**
cheese 8498
pigment 8498
- Monascus ruber,**
oil palm kernels 4220
- Monensin,**
 10221
assay 9033
Botrytis cinerea 4669
chicken feed, assay, Streptococcus faecalis 7785
rumen fermentation, ruminant feed 3417
- Monensin A,**
conformation 10385
- Monensin B,**
structure 4807
- Monilia,**
food 7718
plum, resistance 4455
- Monilia fructigena,**
oxazolidine derivatives 3703
- Monilia implicata,**
peach post-harvest decay 7190
- Monilia laxa,**
sour cherry, fungicide 9829
stone fruit trees 9817
- Monilia roseri,**
cacao, plant protection 7144

Subject index

Moniliales,

2-substituted-4(R)-hydroxy-cyclopentane-1,4-dione 4140
antibiotics, antibacterial agent/antifungal agent/antiprotozoal agent/antivermal agent 5617

Monilinia fructicola,

amipurimycin 9124
formamide derivatives, plant protection 7336
peach, benzinidazole 399
pyridinium derivatives, plant protection 3583
stone fruit, benomyl tolerance 4627

Monilinia vaccinii-corymbosi,

highbush blueberry 9851

Monkey pox virus vaccine,

10419

Monoacetoxyscirpenol,

Fusarium roseum, animal feed 2620

Monocytosis-producing activity,

Listeria monocytogenes 5140

Monofluorophosphate,

dentifrice, dental caries 3930 3931
oral composition, dental caries/dental calculus 1534

Monoformyldiaminomaleonitrile,

microbiocide 2130

Monoketo-organomycin,

antibacterial agent/antifungal agent 10332

Monolinia fructicola,

oxadiazolidine-3,5-dione derivatives 1115

Monomycin,

antibiotic mixture, microbiological assay 2990

antibiotics 2999

bile system microflora 2995

enterobacteria 9040

Escherichia coli 1304

Proteus 1304

Pseudomonas aeruginosa 1304

Salmonella 1307

Salmonella typhi 5682

Shigella + Candida albicans 5631

Staphylococcus 1304 1306

Yersinia pseudotuberculosis 4744

Monosodium methanearsonate,

Aspergillus terreus, soil 7280
forest soil, ammonification, nitrification 7265

Trichoderma viride, soil 7280

Monosporium ellipticum,

fennel rhizoplane, subamycin 2863

Monosporium olivaceum,

steroid 11alpha-hydroxylase 3320 3321

Monotropa hypopitys,

chloromycorrhizin A 6004
mycorrhizal fungus, chloromycorrhizin A 7437
mycorrhizal fungus, mycorrhizin A 7437

Monte Carlo method,

aflatoxin, peanut 2626

Monte Carlo simulation,

microbial culture 6748

Montmorillonite,

cadmium, antibacterial agent/antifungal agent 6455

Rhizobium desiccation 6441

soil Actinomycetes 2859

Monuron,

river water, microbial degradation 6023

Moraxella,

chicken leg muscle spoilage 8506
dental clinic water 10479
efrotomycin 5731
gamma-irradiation, food sterilisation 9662
methane chemostat culture 10097
Pacific shrimp 7020
polymyxins 4779
prepackaged beef, carbon monoxide, shelf-life 2613
radurized Vienna sausage 2615

Moraxella(Contd),

refrigerated chicken, volatile odour compounds 925
soil, quinoline degradation 3371
test 1561
vacuum-packaged beef 6127
vacuum-packaged lamb 7804
vacuum-packaged trout, gamma-irradiation 5258

Moraxella lwoffii,

9-hydroxyellipticine 1229

Moraxella nonliquefaciens,

fimbrial protein 6849

Moraxella phenylpyruvica,

estuarine water/sediment, petroleum degradation, numerical taxonomy 10109

Morchella,

food 1715

Morestan,

Alternaria cucumerina, squash 382

Morganocin,

Escherichia coli 5910
Proteus mirabilis 5910
Proteus morganii 5910
Providencia 5910

MORLOC system,

Enterobacteriaceae 2377

MORLUC numeric system,

Enterobacteriaceae 1567

Morphine,

bacterial degradation 116

Morphocycline,

+ beryllium, fluorimetry 6616
assay 6616
Clostridium perfringens 5628

Morpholino-N-acetohydrazide,

hydrazones, antibacterial agent/antifungal agent 2152

Mortierella subtileissima,

pigeon pea rhizosphere 6422

Mortierella,

corn 8635
prostaglandin beta-oxidation 9442
soil, hymexazol, Phytophthora selective medium 10054

Mortierella subtileissima,

culture filtrate, leaf litter soil fungi 10051

Mortierella vinacea,

alpha-galactosidase,
p-nitrophenyl-alpha-D-galactopyranoside hydrolysis 3272

Mosambi leaf crumbling virus,

Citrus 6243

Mosquito,

cell culture, amphotericin C/amphotericin B methyl ester 10325
insecticidal microbial film 86

Mosquito denosnucleosis virus,

glycerol preservation 9015

Most probable number analysis,

ammonium-oxidising soil microorganisms 6406
microorganisms 6406

Most probable number test,

+ membrane filter, Salmonella/coliform, estuarine water 722

Moth,

diamondback, granulosis virus insecticide 9482
Indian meal, Bacillus thuringiensis insecticide 2541
wax, Bacillus thuringiensis insecticide, beebomb 3442

Motility,

bacterial, assay 6763

Mouse,

aflatoxin B1 2628
Mycobacterium leprae culture 3983

Mouse footpad cell culture,

Mycobacterium leprae 3984

Subject index

- Mouthwash,**
alexidine dihydrofluoride, dental
plaque/dental calculus/dental
caries/gingivitis 1533
cetylpyridinium chloride, dental plaque 1537
fluoride, dental caried 7529
- Mucidin,**
Oudemansiella mucida 4813
- Mucilage,**
preservative, cinnamyl phenols 532
- Muconomycin,**
protein synthesis 3434
- Mucopeptide,**
Streptomyces griseus, streptomycin 2224
- Mucor,**
bakery dust 9172
bread/sponge cake, propionic acid
preservation 9684
8-chloro-10,11-dihydrodibenz(b,f)(1,4)oxazepi-
ne transformation 4137
cotton seed 2737
fermented food 4190
food 7718
frozen food 6026
milk 920
mouldy grain, animal feed 3415
paint film degradation 4176
paint film degradation, enzymes 4177
pistachio soil 5276
rennin 9501
tree bark fermentation, fertiliser 7488
- Mucor ambiguus,**
aflatoxin E1 degradation, aflatoxin RD 8558
- Mucor christianiensis,**
paper, fungicide 468
paper, fungicide adaptation 4615
- Mucor circinelloides,**
lipase, triglyceride assay 3290
river water 3134
- Mucor flavus,**
lipase, triglyceride assay 3290
- Mucor genevensis,**
cyclic dimedone derivatives 1266
- Mucor hiemalis,**
ethylene, soil 2861
fennel rhizoplane, subamycin 2863
beta-D-glucanase 843
endo-(1-3)-beta-D-glucanase 9393
glutaraldehyde 6509
guava post-harvest decay 7946
lipase, triglyceride assay 3290
phospholipase c 40
pigeon excrement, stone degradation 4183
soil, paraquat/diquat degradation 4602
soil, seed germination 1163
- Mucor javanicus,**
dihydroxyacetone reductase 9384 9385
alpha-glucosidase 5947
lipase, triglyceride assay 3290
- Mucor lipolyticus,**
esterase, cephamycin derivatives 10283
esterase, cephem-4-carboxylic acid 7400
- Mucor luteus,**
fennel rhizoplane, subamycin 2863
- Mucor mandschuricus,**
lipase, triglyceride assay 3290
- Mucor miehei,**
Agaricus bisporus culture 9602
amylase 4066
amylglucosidase 5919
enzymes 9350
enzymes, food 134
esterase, cheese 924
immobilised protease, cheese 6046
milk-clotting enzyme, casein/cheese 923
milk-coagulating enzyme 9419
protease, milk beta-casein 7001
Rennelase, cheese 8495
rennet 45
rennet, cheese 5094 5222 6045
- Mucor miehei(Contd),**
rennet, Edam cheese 7754
rennet, rennet casein 2573
rennilase, cheese 8494
- Mucor mucedo,**
alpha,omega-alkanedicarboxylic
acids/alpha,omega-alkanedicarboxylic acid
dimethyl esters 1231
loganberry post-harvest decay 6321
n-oxyppyridyl thiol aluminium derivatives 740
protein 6841
strawberry post-harvest decay 7192
- Mucor piriformis,**
beech 1155
- Mucor pusillus,**
Agaricus bisporus culture 9602
amylase 4066
enzymes 9350
enzymes, food 134
milk-clotting enzyme, casein/cheese 923
milk-clotting enzyme, cheese 8494
nitroperhydropyridodiazepine derivatives
2976
oil palm kernels 4220
protease, milk beta-casein 7001
rennet 45
rennet, cheese 5094 5222 6045
rennet, Edam cheese 7754
rennet, rennet casein 2573
stored rapeseed 6326
- Mucor racemosus,**
oil palm kernels 4220
- Mucor rouxianus,**
rice beer 4163
- Mucor sphaerosporus,**
toxin, animal feed 1799
- Mucorales,**
2-substituted-4(R)-hydroxy-cyclopentane-1,4-di-
one 4140
alkane degradation 10105 10106
Norway spruce 8004
- Mucosal disease virus,**
bovine cell culture, quality control 8109
bovine foetal serum, quality control 8109
- Mucuna pruriens,**
nodulation 2078
- Mud,**
filter, *Rhizobium* carrier 2879
- Muehlenbeckia pomplexa,**
Oidiopsis/Leveillula taurica 5299
- Mueller-Hinton agar,**
amylase testing medium, *Streptococcus*
bovis/Streptococcus group D/*Pseudomonas*
stutzeri 4000
- Muhlenbergia frondosa,**
Maize dwarf mosaic virus 1867
- Muhlenbergia mexicana,**
Maize dwarf mosaic virus 1867
- Mulberry,**
mulberry dwarf disease, mycoplasma-like
organism, *Humulus japonicus* 8699
Mulberry dwarf disease,
mycoplasma-like organism, *Humulus japonicus*
8699
- Mulch,**
soil, microbial diseases, squash 7966
- Muller-Kauffmann tetrathionate medium,**
Salmonella, sewage-polluted water 5799
- Mullite,**
fungal degradation 905
- Multiple syringe inoculator,**
agar plates 7533
- Multiple-tube method,**
faecal indicator bacteria, ice-covered river
water 3132
- Mumisops elengi,**
Fomes durissimus, culture 2042
- Mummy berry disease,**
Monilinia vaccinii-corymbosi, highbush
blueberry 9851

ubject index

- mps virus,**
 - antibody, haemolysis-in-gel test/neutralization test 1608
 - cell culture, gentamicin 611
 - continuous-flow ultracentrifugation 3205
 - haemagglutination/haemagglutination-inhibition, lyophilised chick erythrocytes 1606
- mps virus vaccine,**
 - 2285 4834
- ingbean yellow mosaic virus,**
 - bean 4294
- Compositae 4294**
- Cosmos bipinnatus 4294**
- Gramineae 4294**
- Leguminosae 4294**
- whitefly 1844**
- uramic acid,**
 - microbial biomass assay, sediment 7506
- urchar,**
 - Hansenula anomala/Mucor rouxianus 4163
- urine cytomegalovirus,**
 - phosphonoacetic acid 1243
 - ribavirin 3713
- urine leukaemia virus,**
 - isatin beta-thiosemicarbazones 2968
 - polyguanylic acid 3715
 - polyxanthylic acid 3715
- UR Murine leukaemia virus,**
 - velocity sedimentation + isopycnic centrifugation 1612
- urine lymphocytic choriomeningitis virus,**
 - antiviral agent 2122
- urine sarcoma virus,**
 - isatin beta-thiosemicarbazones 2968
- urraya exotica,**
 - Oidium 2665
- usa,**
 - Botrytis cinerea post-harvest decay 8751
 - Colletotrichum musae 4432
 - Colletotrichum musae post-harvest decay, imazalil 3540
 - Fusarium moniliforme post-harvest decay 7186
 - Fusarium oxysporum 6241
 - Fusarium solani post-harvest decay 7187
 - Guignardia musae 7105
 - Helminthosporium speciferum post-harvest decay 9910
 - Mycosphaerella fijiensis 298 5350
 - Mycosphaerella fijiensis, benomyl tolerance 6369
 - Mycosphaerella musicola 4289 5350
 - post-harvest decay, Colletotrichum musae 4433
 - post-harvest decay, fungicide 345
 - post-harvest decay, Fusarium 4433
 - post-harvest decay, preservation 344
 - post-harvest decay, Verticillium theobromae 4433
 - post-harvest decay, Rhizopus oryzae, fungicide 1965
- usa acuminata,**
 - Fusarium oxysporum 6241
- usa balbisiana,**
 - Fusarium oxysporum 6241
- usa textilis,**
 - abaca mosaic virus 5293
- usambi,**
 - Botryodiplodia theobromae post-harvest decay 3542
 - citrus greening 1043
- usarin,**
 - yeasts 2170
- ushroom,**
 - 3411 9601
 - agaridoxin 82
 - Aroma compounds 7029
 - compost 1759
 - compost, aerobic growth 3151
 - culture, Chaetomium cellulolyticum 1760
 - culture, compost 5235
- Mushroom(Contd),**
 - culture, fungi 9602
 - culture medium 9600
 - dried, microbiology 5237
 - extract, dough 192
 - flour, microbiology 5237
 - food 2594 3409
 - genetics 3410
 - inky cap, coprine 6830
 - insecticide 8517
 - mercury 193
 - post-harvest decay 6322 6816
 - post-harvest storage 7036
 - protein 7776
 - protein amino acids 5236
 - Pseudomonas tolaasii, biological control 2025
 - Verticillium fungicola, chlorthalonil 2017
 - Verticillium malthousei, biological control, Trichoderma viride 3564
 - virus disease 248
 - virus particles 1613
- Muskmelon,**
 - Fusarium oxysporum 2748
- Mussel,**
 - disinfection/sterilisation, iodine + polyvinylpyrrolidone 967
 - feed, bacteria 8520
 - fresh, hygiene 743
 - Vibrio parahaemolyticus, sublethal cold shock 9589
 - yeasts 6086
- Must,**
 - grape, apple pomace 103
 - grape, sulphide 5180
 - grape, sulphite 5180
 - grape, yeast 105
- Mustard,**
 - Indian, Sclerotinia sclerotiorum, polymethylgalacturonase/cellulase 3508
- Mutagen,**
 - assay 10538
 - assay, Escherichia coli 6776
 - assay, Saccharomyces cerevisiae, fluctuation test 9296
 - assay, Salmonella typhimurium 6776
 - fast neutron irradiation, Streptomyces aureofaciens, moenomycin 9027
 - fast neutron irradiation, Streptomyces ghanaensis, demethylchlortetracycline 9027
 - fast neutron irradiation, Streptomyces lincolnsensis, lincomycin 9027
 - folic acid antagonists, Streptococcus faecium 10144
 - gentamicin, Pasteurella pestis 10317
 - microbiological assay 10538
 - nitrous acid, Claviceps purpurea 4981
- Mutagenicity,**
 - N-nitroso-N-methylcarbamate, assay, Escherichia coli/Bacillus subtilis 3965
- Mutagenicity assay,**
 - chromium, Salmonella typhimurium 7575
- Mutant,**
 - bacterial, culture, carbon dioxide assay 2374
- Mutation,**
 - Saccharomyces cerevisiae, protein 823
- Mycaminose,**
 - narbomycin glycosidation, Streptomyces platensis, 5-O-mycaminosyl narbonolide, 9-dihydro-5-O-mycaminosyl narbonolide, antibacterial agent 7438
 - 5-O-mycaminosyl narbonolide, 9-dihydro-, Streptomyces platensis, antibacterial agent 7438
 - Streptomyces platensis, antibacterial agent 7438

Subject index

- Mycelia sterilia,**
antibiotics, antibacterial agent/antifungal agent/antiprotozoal agent/antivermal agent 5617
- Mycelianamide,**
Penicillium, butyrylcholinesterase inhibitor 1427
- Mycelin,**
yeasts 2170
- Mycocaccia uda,**
volatile odour compound 1595
- Mycobacillin,**
Bacillus 9354
derivatives, antifungal agent 10386
haemolytic agent 10387
soil 8924
- Mycobactericide,**
glutaraldehyde 3678
long-chain fatty acids 491
- Mycobacterium butyricum,**
adjuvant, vaccines 8201
- Mycobacteriophage,**
polyethylene glycol 2398
- Mycobacterium,**
6806
acid-fast stain 4956
Actinomyces reifensis lytic enzyme 2480
activated sludge, non-ionic surfactant degradation 1709
adjuvant 1571
adjuvant, vaccines 8201
agglutination test 9277
amino acids 3230
antibiotic 19 402 R.P. 3798
antibiotic P-3355 2244
bacteriocins 2439
carbonamidouinoxaline-di-N-oxide derivatives 1226
disinfectant 7509
environmental pollution 8875
enzymatic tests 4957
enzyme assay, umbelliferone derivatives, spectrophotometry 8276
formate oxidase, radiometry 5845
gentamicin C1 derivatives 2225
beta-glucosidase test 10571
immunological adjuvant 3226
alpha-ketoglutaric acid, isopropanol 807
lecithin-cholesterol liposome culture medium 2381
lyophilisation preservation 544
methane chemostat culture 10097
milk, pasteurisation 4236
minosamycin 2263 2264
minosaminomycin 10383
mycolic acid 3966
3-oxo-pregna-4,17(20)-dien-20-carboxylic acid 9441
periodic acid-carbol-pararosanilin staining 10570
periodic acid-methenamine silver staining 6778
phage typing 3182
phosphatase test 3180
purine degradation 119
radioimmunoassay 7569
rifampin resistance 8055
soil 8875
soil, aldrin degradation, exo-dieldrin 10074
soil, ethylene 6461
sublimation dehydration preservation 2981
succinic acid, isopropanol 807
sulphuric acid 8967
tall oil sterol transformation 868
tetrahydrocannabinol transformation 8427
transmission electron microscopy 5846
urease test 10572
wax, soil/oil 4148
- Mycobacterium 607,**
epi-bleomycins 5723
- Mycobacterium 607(Contd),**
gentamicin C1a derivatives 5685
oxamicetin 3073
- Mycobacterium abscessus,**
sulphuric acid 8967
- Mycobacterium aquae,**
lyophilisation preservation 544
- Mycobacterium avium,**
7-deoxysteffimycinone 8193
antibiotic A16884 6619
antibiotic A2041 derivatives 200
antibiotic A23187 2239
antibiotic A-26771 1350
damavaricin 634
1-deoxy-D-threo-pentulose 5728 5729
environmental pollution 8875
formate oxidase, radiometry 5845
glutaraldehyde 3678
lyophilisation preservation 544
rancinamycin I/rancinamycin II/rancinamycin III/rancinamycin IV 5759
steffimycinone 8193
streptovaricin isomers 1443
sulphuric acid 8967
xylostasin 654
- Mycobacterium avium complex-serotype 6,**
blood agar medium 3980
- Mycobacterium balnei,**
swimming pool 3143
- Mycobacterium BCG,**
sulphuric acid 8967
tuberculin active protein 3246
- Mycobacterium BCG vaccine,**
3088
- Mycobacterium bovis,**
BCG vaccine 10425 10426
BCG vaccine, preservation 665
formate oxidase, radiometry 5845
glutaraldehyde 3678
lecithin-cholesterol liposome culture medium 2381
lyophilisation preservation 544
oleic acid albumin agar selective/culture medium 10573
peracetic acid 3679
phage typing 3183
sulphuric acid 8967
urease test 10572
- Mycobacterium bovis BCG,**
soil/vegetables, sewage effluent/sludge spray-irrigation 9205
- Mycobacterium bovis BCG vaccine,**
3827 3828 3829
- Mycobacterium ceroformans,**
wax, soil/oil 4148
- Mycobacterium chelonae,**
amikacin 7388
gentamicin 7388
sisomycin 7388
soil 8875
sulphuric acid 8967
tobramycin 7388
urease test 10572
- Mycobacterium citreum,**
chlortetracycline 9110
- Mycobacterium convolutum,**
propylene 4619
- Mycobacterium diernhoferi,**
sulphuric acid 8967
- Mycobacterium farcinicum,**
antitubercular agents 4641
- Mycobacterium fortuitum,**
amikacin 7388
antibiotics/antimycobacterial agents 10131
enzyme assay, umbelliferone derivatives, spectrophotometry 8276
formate oxidase, radiometry 5845
gentamicin 7388
lyophilisation preservation 544
phosphatase test 3180

Subject index

Mycobacterium fortuitum(Contd),

sisomycin 7388
soil 8875
sulphuric acid 8967
tobramycin 7388
transmission electron microscopy 5846

Mycobacterium gallisopteum,

anhydroerythromycin B 3046

Mycobacterium gastris,

phosphatase test 3180

Mycobacterium globiforme,

immobiliseo, hydrocotritone transformation 7596

Mycobacterium gordonae,

formate oxidase, radiometry 5845
soil 8875
urease test 10572

Mycobacterium granularum,

anhydroerythromycin B 3046

Mycobacterium intracellulare,

amikacin 7388
antileprosy agents 10132
gentamicin 7388
glutaraldehyde 3678
rifampin resistance 8055
sisomycin 7388
tobramycin 7388
urease test 10572

Mycobacterium kansasii,

adjuvant 1571 2532
adjuvant, vaccines 8201
amikacin 7388
alpha-aminooxycarboxylic acid derivatives 8058 8059
antitumour agent 2523
formate oxidase, radiometry 5845
gentamicin 7388
glutaraldehyde 3678
immunological adjuvant 3226
lyophilisation preservation 544
phage typing 3184
phosphatase test 3180
rifampicin resistance 4645
sisomycin 7388
sulphuric acid 8967
tobramycin 7388
transmission electron microscopy 5846
urease test 10572

Mycobacterium lacticolum,

cetyl alcohol, hexadecane 2919
culture medium 9278
polysaccharide, hexadecane 2918 2919
vitamin B2, hexadecane 2919
wax, soil/oil 4148

Mycobacterium leprae,

autoradiography 8277
benzo-1,2,4-triazines 1225
benzotriazine-1,4-dioxide derivatives 2118
cell culture 3985
collection 6758
culture medium 3987
enumeration 10574
hyaluronidic acid culture medium 7567
macrophage culture 3181
mass, electron microscopy 10575
mouse culture 3983
mouse footpad cell culture 3984 7568
periodic acid-methenamine silver staining 6778
polyinosinic-polycytidylic acid 4652
radiolabelling 3986
thiadiazole derivative 8061
transport 6758

Mycobacterium lepraemurium,

cell culture 3982 3985
complement fixation 9312
culture 9312
culture medium 3981
immunofluorescence 9312
Mycobacterium leprae 3983

Mycobacterium lepraemurium(Contd),

staining 9312

Mycobacterium marianum,

amikacin 7388
gentamicin 7388
sisomycin 7388
tobramycin 7388

Mycobacterium marinum,

clofazimine 2928
compound B1912 2928
glutaraldehyde 3678
phosphatase test 3180
rifampicin 2928
riminophenazine derivatives 2928
sulphuric acid 8967
swimming pool water, chlorine resistance 2331
urease test 10572

Mycobacterium microti,

lyophilisation preservation 544

Mycobacterium nonchromogenicum,

phosphatase test 3180
soil 8875

Mycobacterium parasmegmatis,

antibiotic 19 402 R.P. 3792

Mycobacterium phlei,

antibiotic 1745A/X 10337
antibiotic 792 9114
antitubercular agents 4648
aplastomycin 5717
L-asparaginase 68
equisetin 1416
formate oxidase, radiometry 5845
gentamicin C1a derivatives 5685
gramicidin A/gramicidin A analogues 4804
hydrazino-pyridine derivatives 2139
isoniazid 10136
lyophilisation preservation 544
oxamicetin 3073
phage, polyethylene glycol 2398
prodigiosin 8165
steroid reduction 57
triorganotin compounds/triorganolead compounds 2129
xylostasin 654

Mycobacterium pneumoniae,

anhydroerythromycin B 3046

Mycobacterium ranae,

gentamicin C1a derivatives 5685
oxamicetin 3073

Mycobacterium rhodochrous,

cannabinoic transformation 8426

Mycobacterium scrofulaceum,

3984
amikacin 7388
formate oxidase, radiometry 5845
gentamicin 7388
glutaraldehyde 3678
sisomycin 7388
sulphuric acid 8967
tobramycin 7388
urease test 10572

Mycobacterium smegmatis,

3-deoxydehydrostreptomycin 6594
3-methylmercapto)propylaminobleomycin 1690
adjuvant, vaccines 8201
antibiotic AV290 alkylated derivatives 1394
antibiotic KM-214 2243
antitubercular agents 4648
antitumour agent 2523
aplastomycin 5717
bleomycins 629
D-3,6-diaminohexanoic acid
2-(carboxymethyl)-2-methylhydrazine 2151
diglyceride acyltransferase 6685
4-ene-3-oxosteroid-5alpha-reductase 9389
enzymatic tests 4957
ethambutol 6492
ethambutol assay 10133
fluorescent nucleoside 872

Subject index

Mycobacterium smegmatis(Contd),

glutaraldehyde 3678
immunological adjuvant 3226
kanamycin ? derivatives 6596
kanamycin derivatives 1785
lividomycin A derivatives 6641
lividomycin B derivatives 1422 6641
lyophilisation preservation 544
mannooligosaccharide 4119
negamycin analogues 642
palmityl-CoA-ACP-transacylase 856 7642
phage, polyethylene glycol 239P
protoplast 5015
rifampin resistance 8055
streptomycin A 5763
streptomycin + tuberactinomycin + kanamycin +
 capreomycin resistance 6421
Thalicticum rugosum alkaloid 2144
xylostasin 654

Mycobacterium szulgai,

urease test 10572

Mycobacterium terrae,

formate oxidase, radiometry 5845
soil 8875
urease test 10572

Mycobacterium triviale,

phosphatase test 3180
soil 8875

Mycobacterium tuberculosis,

4-(p-aminophenyl)thiazoles 493
2-acetylindole halogen derivatives 5597
acid-fast smear 1572
adjuvant 1571 2532 4134
adjuvant, vaccines 8201
alpha-halogenated fatty acid 1255
amikacin 7388
alpha-aminocarboxylic amide 8060
aminoglycoside antibiotics 3755
alpha-aminocyclohexanecarboxylic acid derivatives
 8058 8059
(4-aminophenyl)thiazole derivatives + indole
 derivatives Schiff bases 8969
p-aminosalicylic acid derivatives 4650
antibiotic 41,012 10334
antibiotic sensitivity testing, radiometry
 9041
antigen, tuberculosis test substance 4959
antitubercular agents 4648
antitumour agent 2523
arylsulphonylacetic acid hydrazide
 derivatives 8985
benzo-1,2,4-triazines 1225
benzotriazine-1,4-dioxide derivatives 2118
benzylamine derivatives 2929
capreomycin 5724
carbinal derivatives 492
culture 4958
ethambutol 4649
flow microphotometry 4920
fluorescent nucleoside 872
formate oxidase, radiometry 5845
gentamicin 7388
glutaraldehyde 3678
glycolic acid iodophenyl hydrazide
 derivatives 5971
hexachlorophene + povidone-iodine + ethanol,
 bronchofiberscope disinfection 5807
hydrazinoamine derivatives 4651 8970
9-hydroxyellipticine 1229
immunological adjuvant 3226
isoniazid 4649 10137
isoniazid-copper complex 7343
kanamycin/capreomycin/viomycin resistance
 7307
lecithin-cholesterol liposome culture medium
 2381
lipiarmycin 8186
long-chain fatty acids 491
lyophilisation preservation 544

Mycobacterium tuberculosis(Contd),

machine staining/manual staining,
 fluorescence microscopy 4955
mimosamycin 2263 2264
N-methyl-oligopeptides 535
naphthoquinone-4-aryl(aroyl)hydrazone
 derivatives 6493
nitroimidazole derivatives 1270
paromomycin derivatives 3764
peracetic acid 3679
periodic acid-methenamine silver staining
 6778
phage typing 3185 3186 3187 3188
piperazinyl-oxypyrido-pyrimidine derivatives
 2946
pyrazine-2-carbothioamide derivatives 2930
pyrazine-2-carboxylic acid derivatives 8968
pyrazine derivatives 3680 10134
radioimmunoassay 7569
radiometry, selective medium 10576
resistance, viomycin + capreomycin +
 enviomycin + kanamycin + lividomycin +
 paromomycin, isoniazid 6482
rifampicin 4649 7309
rifampicin resistance 7309
river water 2338
salicylanilide derivatives 5544
sisomycin 7388
Streptococcus faecalis, culture medium 3988
Streptococcus salivarius, culture medium
 3988
sulphuric acid 8967
superoxide dismutase 7664
tests 2382
thiazole derivatives 2106
thienopyridine-carboxylic acid derivatives
 503 2944
thionaphthamide derivatives 5545 10135
thiosemicarbazono derivatives 10138
tobramycin 7388
tuberculin active protein 3246
urease test 10572
Mycobacterium tuberculosis RNA vaccine,
 666
Mycobacterium tuberculosis vaccine,
 3086
Mycobacterium xenopi,
 sulphuric acid 8967
 urease test 10572
Mycocentrospora acerina,
 carrot post-harvest decay 4435
 celery 5368
 celery post-harvest decay 5368
 pansy 6262 7159
Mycococcus,
 fuel tank, organic acids 4617
 hydrocarbon 7291
 sublimation dehydration preservation 2981
Mycoflora,
 corn 9786
Mycoheptin,
 antitumour antibiotic 9461
 assay, paper disc agar diffusion 6643
 assay, spectrophotometry 9105
 Streptomyces mycoheptenicum 9143
 Streptomyces mycoheptenicum, sunflower oil
 cake meal 10224
 Streptovercicillium mycoheptenicum 10379
Mycolic acid,
 Corynebacterium 3966
 Corynebacterium, thin-layer chromatography
 3175
 Mycobacterium 3966
 Nocardia 3966
 rhodochrous group 3966
Mycology,
 794 2403 6808
Mycolutein,
 aureothin 1365

Subject index

Mycoparasitism

- Aphanomyces euteiches, Hyphochytrium catenoides, soil 5480
- Pythium, Hyphochytrium catenoides, soil 5480

Mycophage

- lipid solvents 3182
- Mycobacterium bovis typing 3183
- Mycobacterium kansasii typing 3184
- Mycobacterium tuberculosis typing 3185 3186 3187 3188
- Mycobacterium typing 3182

Mycophenolic acid

- derivatives, antitumour agent 873 874
- Penicillium brevicompactum, gas chromatography + mass spectrometry 811
- Penicillium stoloniferum fast-moving virus 521

Mycoplasma

- 3215
- antimycoplasma agent 5436
- apricot 9826
- apricot, plant protection 9827
- carbonamidoquinoxaline-di-N-oxide derivatives 1226
- cell culture, fluorescent Hoechst 33258 stain 6800
- coconut palm wilt 4381
- conditional-lethal mutants, Millipore filter 2309
- corn 5315
- corn stunt disease complex, corn 7881
- culture medium 8278
- culture medium, arginine 3212
- diamidine-2-phenylindole 1599
- fluorogenic tests 10577
- indirect haemolytic test 1600
- laidlomycin 4807
- little leaf, brinjal, resistance 8829
- little leaf, brinjal, tetracycline 8829
- little leaf disease, brinjal 4375
- methoxychlor degradation 8458
- microbial degradation 8458
- New York City enrichment medium + biological environment carbon dioxide chamber 10580
- pea 1855
- plant diseases, plant protection 8826
- proteins, polyacrylamide gel isoelectric focusing 3211
- reference antisera, assay 5847
- rice 5315
- sandal spike, sandal, plant protection 7241
- serum protein 2402
- sugarcane 5315
- T strain, differential agar medium 1603
- tissue culture, quality control 549
- witches' broom, Angelonia salicariaefolia 3500
- witches' broom disease, jujube, tetracycline 315
- witches broom, peanut 5308

T-Mycoplasma

- isolation medium 10578
- New York City enrichment medium + biological environment carbon dioxide chamber 10580

Mycoplasma agalactiae

- cattle, teat dip/sanitizer 735

Mycoplasma arthritis

- benzo-1,2,4-triazines 1225
- benzotriazine-1,4-dioxide derivatives 2091 2118
- serum protein 2402

Mycoplasma bovinastitidis

- cattle, teat dip/sanitizer 735

Mycoplasma fermentans

- microcalorimetry 3210

Mycoplasma gallisepticum

- amphotericin B methyl ester 4780
- antibiotic A23187 2239
- antibiotic A-2315, poultry feed 623
- antimycoplasma agent 5436

Mycoplasma gallisepticum(Contd)

- carbomycin E 4817
- haemagglutinin, haemagglutination inhibition test 79
- leucomycin A1 4817
- leucomycin A3 4817
- lipiarmycin 8186
- niddamycin 4817
- pea 1855
- pleuromutilin derivatives 5755 5756

Mycoplasma gallisepticum vaccine

3203

Mycoplasma hominis

- culture medium 8278
- indirect haemolytic test 1600
- microcalorimetry 3210
- pleuromutilin derivatives 5755 5756
- transport system 5837

Mycoplasma hyorhinis

- cell culture, fluorescent Hoechst 33258 stain 6800
- pleuromutilin derivatives 5755 5756

Mycoplasma hypopneumoniae

- lincomycin 5436
- tylosin 5436

Mycoplasma laidlawii

- amphotericin B methyl ester 4780

Mycoplasma-like organism

- apple proliferation 4361
- apple proliferation disease, fluorescence microscopy 1047
- aster yellows, aster 7903
- aster yellows, spinach 7172 7935
- big bud, tomato, plant protection 5392
- bunch disease, pecan 8670
- Catharanthus roseus, electron microscopy 4387
- citrus greening 5353
- citrus greening, sweet orange 5354
- citrus greening, sweet orange, plant protection 5355
- clovers yellow type disease, Cirsium oleraceum 4295
- clovers yellow type disease, Matricaria inodora 4295
- clovers yellow type disease, Plantago media 4295
- Delphinium, electron microscopy 4387
- dogwood, tetracycline/oxytetracycline/chloramphenicol 1928
- Kaincope disease/Cape St. Paul wilt, Coconut palm 1054
- kainkope, coconut palm 6260
- Kainkope disease, coconut palm 2735
- Kainkope disease, coconut palm, tetracyclines 2821
- lethal yellowing, coconut palm 8687
- lethal yellowing disease, coconut palm, oxytetracycline, fruit 403
- lethal yellowing, Pritchardia pacifica, oxytetracycline 8675
- lethal yellowing, Pritchardia thurstonii, oxytetracycline 8675
- lethal yellowing, Trachycarpus fortunei, oxytetracycline 8675
- lethal yellowing, Veitchia merrillii, oxytetracycline 8675
- little leaf disease, eggplant 5372
- mulberry dwarf disease, Humulus japonicus 8699
- pear decline, fluorescence microscopy 1047
- phloem necrosis, elm 10012
- phyllody, Launaea nudicaulis 1065
- pigeon pea rosette disease 5309
- plant disease 5295 8591
- plant disease, plant protection 5436
- purple top roll disease, potato 5386
- rice orange leaf disease, rice 5330

Subject index

Mycoplasma-like organism(Contd),

- stolbur, tobacco, tissue culture 367
- sunflower phyllody 1955
- tomato stolbur, tissue culture, plant protection 1098
- walnut bunch, walnut 3622
- witches' broom disease, loofah 319
- witches' broom, *Mirabilis jalapa* 5379
- X-disease, peach, oxytetracycline 6375

Mycoplasma mycoides,

3093

Mycoplasma pneumoniae,

- benzo-1,2,4-triazines 1225
- benzotriazine-1,4-dioxide derivatives 2091
- 2118
- culture medium 8278
- disinfectants 10487
- indirect haemolytic test 1600
- organ culture, microrespirometer chamber 1602
- tetrazolium reduction test 3213
- trichenyttetrazolium chloride reduction test 1601

Mycoplasma suisneumoniae vaccine,

3093

Mycoplasma synoviae,

- chicken, chlortetracycline feed 951
- haemagglutinin, haemagglutination inhibition test 79

Mycoplasma synoviae vaccine,

3093

Mycoplasma virus,

- conditional-lethal mutants, Millipore filter 2399

Mycoplasmatales,

- fluorogenic tests 10577
- microcalorimetry 3210

Mycorrhiza,

8301

- Amanita muscaria*/*Boletus edulis*, pine, *Phytophthora cinnamomi* 8850
- Amanita muscaria*, white birch 5444
- Antidesma frutescens* 8840
- beech 4524 7230
- biological control, *Fomes annosus* 1123
- biological control, *Phytophthora cinnamomi* 1123
- Caribbean pine 7228
- Cenococcum graniforme*, American beech 3599
- chir pine 3600
- dazomet 4609
- Douglas fir soil 6380
- ecto-, *Cenococcum graniforme*, forest tree 2828
- ecto-, forest tree 2827
- Endocone, *Agrostis*, phosphorus 3877
- Eucalyptus regnans* 7231
- Glomus fasciculatus*, potato 3637
- Glomus mosseae*, cotton, *Thielaviopsis basicola* 8590
- Glomus mosseae*, *Liquidambar styraciflora*, soil nitrogen 4527
- Glomus mosseae*, potato 3637
- larch soil 6380
- loblolly pine 8841
- loblolly pine, soil fertilisation 8842
- Mallotus ricinoides* 8840
- Monotropa hypopitys*, chloromycorrhizin A 7437
- Monotropa hypopitys*, mycorrhizin A 7437
- orchid 4572 4573
- patula pine 3600
- Pentacme contorta 8840
- pesticides 8917
- Ptilostigma malabaricum* 8840
- pine, trifluralin 7227
- Pisolithus tinctorius*, *Eucalyptus gummiifera* 409
- Pisolithus tinctorius*, + soil sewage sludge, pine 3601

Mycorrhiza(Contd),

- radiate pine, fungicide seed dressing 7989
- radiate pine, seed dressing fungicide 6382
- soil 4566
- soil phosphate 8876
- soil, subsoiling 10038
- Suillus variegatus*, Scots pine
- cytokinin/auxin 6381
- Tricholoma matsutake*, Japanese stone pine 5442
- Tricholoma matsutake*, Sakhalin fir 5443
- Tricholoma matsutake*, Sakhalin spruce 5443
- vesicular-arbuscular 5876
- vesicular-arbuscular, corn 4570
- vesicular-arbuscular, cowpea 4570
- vesicular-arbuscular, forest soil 7226
- vesicular-arbuscular, *Gigaspora gigantea*, rice 4571
- vesicular-arbuscular, onion, benomyl 7975
- vesicular-arbuscular, onion, captan 7975
- vesicular-arbuscular, plant rhizosphere 7257
- vesicular-arbuscular, plant root, colorimetry 5478
- vesicular-arbuscular, plants 4567
- vesicular-arbuscular, potato, phosphorus fertiliser 8878
- vesicular-arbuscular, sheep's fescue 4568
- vesicular-arbuscular, tomato 4570
- white clover 4569
- yellow death, Merkus pine 8845
- Mycorrhizin A,**
- Monotropa hypopitys* mycorrhizal fungus 7437
- Mycosphaerella,**
- Eucalyptus* 8855
- triazino-benzimidazole derivatives, plant protection 3588
- Mycosphaerella berkeleyi,**
- benzimidazole resistance, plant protection 7204
- Mycosphaerella fijiensis,**
- banana 5350
- banana, benomyl tolerance 6369
- plant disease 2656
- Mycosphaerella linorum,**
- plant disease 2656
- Mycosphaerella musicola,**
- 298
- 2-amidocarbonylthiobarbituric acids 2027
- banana 4289 5350
- ethylimidazole derivatives, plant protection 8814
- fungicide, plant protection 7206
- Mycosphaerella pinodes,**
- pea, pisatin 6350
- Mycosphaerella sentina,**
- Rosaceae 5297
- Mycosphaerella zeae-maydis,**
- corn 1870
- Mycosubtilin,**
- yeasts 2170
- Mycotorula japonica,**
- autolysis 1716
- extract 5865
- Mycotoxicosis,**
- 973
- animal feed 972
- Mycotoxin,**
- 8304
- food 223 7809
- lung-toxic furans, sweet potato 7827
- meat 8505
- meat product 8505
- plant disease, electrophysiology 4287
- soil 6410
- Sorghum 1884
- Verticillium albo-atrum*, tomato 1962
- Mycotoxins,**
- 973 9688
- ammonium/potassium isobutyrate 1257
- animal feed 3427 8554 9688

Subject index

Mycotoxins(Contd),

animal food 8560
barley, animal feed 5262
food 2412 3375 7718 8467 856C 9688
forage, fungal post-harvest decay 8747
Fusarium 2619
Fusarium moniliforme, corn 9790
Fusarium poae 2619
Fusarium sporotrichioides 2619
high-performance liquid chromatography 5263
Hungarian salami 5261
mass spectrometry 5259
milk 920
neutralisation, ethylene oxide/methyl formate 4253
nutrition 9689
peanut 2773
salt meat products 8564
soybean 9596
Stachybotrys 2619
Stachybotrys alternans 2619
Mycovellosiella cajanii,
pigeon pea, resistance 6331
Myeloma X-5563,
carbamoyl mycophenolic acid ethylester 874
Myo-inositol dehydrogenase,
Acetomonas oxydans 9420
Myriococcum albomyces,
enzymes 9350
Myristic acid,
Bacteroides fragilis endotoxin 7848
Epicoccum nigrum 1626
Escherichia coli triglyceride 5888
Streptococcus mutans, gas chromatography 5889
Myrothecium,
carbon substrate degradation 9521
cotton seed 2737
soil, nematocide 3653
trichothecenes 7808
Myrothecium roridum,
brinjal 3504
cotton seed 2737
fennel rhizosphere, subamycin 2863
ramie 7168
tomato post-harvest decay 4446
Myrothecium verrucaria,
alfalfa 6189
alpha,omega-alkanedicarboxylic
acids/alpha,omega-alkanedicarboxylic acid
dimethyl esters 1231
birdsfoot trefoil 6189
cellulase 7613
cellulolytic enzymes, cellulose waste 1645
kara clover 6189
Lotus 6189
Lotus aff. decumbens 6189
Lotus creticus 6189
Lotus major 6189
Lotus pusillus 6189
paper degradation 2551
red clover, 6189
rum distillery slops 7701
sewage sludge degradation 1465
white clover 6189
Mytilis edulis,
yeasts 6086
Mytilus galloprovincialis,
feed, bacteria 8520
Myxobacter,
arid soil 2858
Myxobacter AL-I,
protease, Penicillium janthinellum
penicillopepsin 2492
Myxococcus coralloides,
arid soil 2858
Myxococcus fulvus,
arid soil 2858
sporopollenin 9484

Myxococcus stipitatus,
arid soil 2858
sporopollenin 9484
Myxococcus virescens,
arid soil 2858
sporopollenin 9484
Myxococcus xanthus,
antibiotic TA, antibacterial agent/antifungal
agent 6621
arid soil 2858
sporopollenin 9484
Myxoma virus,
3-deazaguanine/3-deazaguanosine/3-deazaguanyl
ic acid 10183
Myxomatosis virus,
6-azauridine 1246
Myxosporium psidii,
guava 8664
Myxotrichum deflexum,
cellulase 7613
paper degradation 2551
Myxovirus,
cartazole derivatives 2128
dihydroxyanthraquinone derivatives 7342
phenanthrene derivatives 525
phenanthridinone derivatives 525
pyranone derivatives 525
theophylline derivatives 8091
thioxanthene bis-basic ketones 1248
xanthene bis-basic esters/bis-basic amides
1247
xanthene bis-basic ketones 1249
xanthone bis-basic ketones 1249
xanthone bis-basic esters/bis-basic amides
1247
Myxovirus vaccine,
6664
Myzus persicae,
cucumber mosaic virus, bean 257
cucumber mosaic virus, Macroptilium
atrovirens/Macroptilium lathyroides 257
potato leaf roll virus, potato, insecticide
1097
potato virus Y, Datura metel/pepper 1059
N-1409,
Streptomyces plumbeus 8325
NAD oxidoreductase,
Pseudomonas aeruginosa cytoplasmic membrane
6821
NADH,
assay, Beneckea harveyi immobilized
luciferase/NAD(P)H:FMN oxidoreductase 2479
NADH dehydrogenase,
Acholeplasma laidlawii 3294
bacterial 3216
Micrococcus lysodeikticus 2484
NADP+-dependent isocitrate dehydrogenase,
Rhizobium meliloti 5073
NADP-reductase,
Thiobacillus roseopersicina 9422
NADPH,
assay, Beneckea harveyi immobilized
luciferase/NAD(P)H:FMN oxidoreductase 2479
NAD(P)H:FMN oxidoreductase,
Beneckea harveyi, immobilization 2479
NADPH-glutathione oxidoreductase,
Thiobacillus thiooxidans 3295
Nadsonia,
acetoin 3344
diacetyl 3344
Naemacyclus niveus,
Scots pine 10002
Nafacillin,
+ gentamicin/tobramycin, Streptococcus group
D 5642

Subject index

- Nafcillin(Contd).**
+ netilmicin, *Staphylococcus aureus* 10302
+ sisomicin, *Staphylococcus aureus* 10302
anaerobic bacteria 3010
antibacterial agent 3752
Clostridium perfringens 7371
mastitis-causing microorganisms 2167
Propionibacterium acnes 5630
Staphylococcus aureus 2223 10302
Staphylococcus aureus penicillinase 7372
Streptococcus group D 5634
Streptococcus viridans 5634
- Nakataea sigmoideum,**
Zizania latifolia 295
- Naladixic acid,**
selective medium, urinary tract infection 6766
- Naled,**
Fusarium graminearum, zearalenone 2636 2637
- Nalidixic acid,**
+ gentamicin, *Proteus mirabilis*,
microdilution transfer plate technique 5627
+ 1,10-phenanthroline, *Escherichia coli* 10146
antibacterial agent 6546
antibacterial sensitivity, dip-slide 2931
derivatives, antibacterial agent 2969
Enterobacter aerogenes 1214
Escherichia coli 1214 4663
Klebsiella pneumoniae 1214
Proteus, isolation medium 4664
Proteus mirabilis 1214
Pseudomonas aeruginosa 1214
Pseudomonas pseudomallei 8117
resistance, *Pseudomonas aeruginosa* 10119
resistance, *Shigella sonnei*, R factor 8979
Salmonella 8949
selective medium, *Enterobacteriaceae*, river water 720
Shigella flexneri 4662
Shigella sonnei 4662 8979
Staphylococcus aureus 1214
Streptococcus faecalis 1214
- Nameko,**
germanium, plant growth promotant/antiviral agent/antifungal agent 1694
- Naphthalene,**
degradation, marine bacteria 480
marine bacteria 479
microbial degradation 1708
oxidation, *Pseudomonas fluorescens*, gentisic acid 2916
petroleum wastewater, microbial treatment 691
tetrahydro-cyclopropa-, derivatives,
antibacterial agent/antifungal agent 4692
- Naphthalene-2-carboxylic acid,**
(+)-cis-1,2-dihydroxy-1,2-, *Pseudomonas testosteroni* 3228
- Naphthalene acetic acid,**
broadbean mosaic virus, broad bean 3591
- Naphthalene dioxygenase,**
Pseudomonas testosteroni,
(+)-cis-1,2-dihydroxy-1,2-dihydronaphthalene
-2-carboxylic acid 3228
- Naphthalene + heptamethylnonane,**
Pseudomonas 6466
- Naphthoquinone,**
derivatives, fungicide 5430
- Naphthol,**
polymerization, *Rhizoctonia praticola* phenol oxidase 3305
- beta-Naphthol,**
bactericide 5552
- alpha-Naphthol acetic acid,**
cucumber mosaic virus, chilli 3555
- Naphthomycin,**
10264
- Naphthoquinone,**
2-hydroxy-3-(cyclohexylpropyl)-1,4-,
bactericide 3690
3-methoxy-2,5,7-trihydroxy-1,4-, *Cercospora* 7826
- Naphthoquinone-4-aryl (aroyl)hydrazones,**
derivatives, *Mycobacterium tuberculosis* 6493
- N-1,8-Naphthyrindin-7-yl)methyleneamine,**
derivatives, antibacterial agent 8067
- Naphthyrindine,**
derivatives, antibacterial agent 2945
7-[(2-(5-nitro-2-furyl)vinyl)-1,8-,
antibacterial agent 3685
- Naphthyrindine-3-carboxylic acid,**
derivatives, antibacterial agent 8983
- Naphthyrindinomycin,**
Escherichia coli 4814
- Narasin,**
Streptomyces aureofaciens 5748 10388
structure 10389
- Narboxycin,**
narbonolide glycosidation, *Streptomyces platensis*, 5-0-mycaminosyl narbonolide,
9-dihydro-5-0-mycaminosyl narbonolide,
antibacterial agent 7438
- Narborolide,**
glycosidation, *Streptomyces platensis*,
5-0-mycaminosyl narborolide,
9-dihydro-5-0-mycaminosyl narborolide,
antibacterial agent 7438
- Narcissus,**
Fusarium oxysporum 7924
Fusarium oxysporum, formaldehyde + hot water 7978
- Naringinase,**
microbial, food 134
- Narrow brown leaf spot,**
Cercospora oryzae, rice, fungicide 4486
- Nasal solution,**
preservative 4702
- Nasturtium,**
nasturtium mosaic virus 8708
Pseudomonas aptata 321
- Nasturtium mosaic virus,**
nasturtium 8708
- Natal-plum,**
Sphaeropsis tumefaciens 5380
- Natamycin,**
antifungal agent 2992
apornatamycin 4815
beverage preservation 6130
natamycinolide 4815
- Natamycinolide,**
natamycin 4815
- Natrium dehydroacetate,**
antifungal agent 7333
- Natto,**
Bacillus natto, nitrite, nitroso compound 8515
- Neamine,**
5-deoxy-, *Streptomyces ribosidificus*,
2,5-dideoxystreptamine 1442
derivatives 9088
neomycin, *Streptomyces fradiae*/*Streptomyces rimosus* 3041
tetra-deoxy-, antibacterial agent 3042
- Nebramycin,**
2171
Streptomyces tenebrarius 4816
Streptomyces tenebrarius, antibacterial agent 2265
- Nebulizer water,**
respirator, disinfection, ultraviolet radiation 3918
- Neck rot,**
Botrytis cinerea, onion post-harvest decay 2770
- Necrosis,**
cucumber mosaic virus RNA 5, tomato 7938
Phytophthora infestans, potato 6286

Subject index

- Necrotic mottle,**
yellow mosaic virus, mung bean 2673
yellow mosaic virus, soybean 2673
yellow mosaic virus, urd bean 2673
- Nectarine,**
Sclerotinia laxa 1900
- Nectria cinnabarina,**
stone fruit trees 9817
- Nectria coccinea,**
7137
beech 1155
- Nectria ditissima,**
7137
beech 1155
- Nectria fuckeliana,**
Norway spruce 8004
Norway spruce, Fomes annosus 7237
- Nectria galligena,**
apple, host trees 7137
apple post-harvest decay, antifungal agent 5396
Rosaceae 5297
- Nectria inventa,**
ginger post-harvest decay 7945
- Needle blight,**
Scirrhia pini, Austrian pine 9998
Scirrhia pini, pine 10003
Scirrhia pini, shore pine 4547
- Needle cast,**
Dothistroma pini, radiata pine 8003
Lophodermella morbida, ponderosa pine 3611
Lophodermella sulcigena, Corsican pine 7236
Lophodermium pinastri, pine 1131 1134 1136 1153
Lophodermium pinastri, pine, fungicide 1146 1147
Lophodermium pinastri, pine, maneb 1148
Lophodermium pinastri, pine, plant protection 1151
Lophodermium pinastri, pine, plantifog 16C M 1149
Lophodermium pinastri, pine, resistance 1140
Lophodermium pinastri, red pine 1152
Lophodermium pinastri, red pine, fungicide 1145
Lophodermium pinastri, Scots pine 1129 1130 1131 1133 1134 1137 1138 1142 1143 1152
Lophodermium pinastri, Scots pine cones 1139
Lophodermium pinastri, Scots pine, fungicide 1145 1146 1147 1150 8849
Lophodermium pinastri, Scots pine, maneb 1148 3612
Lophodermium pinastri, Scots pine, plant protection 1151
Lophodermium pinastri, Scots pine, plantifog 16C M 1149
Lophodermium pinastri, Scots pine, resistance 1128 1140 1141 1142 1144
Lophodermium pinastrum, pine, plant protection 1154
Lophodermium pinastrum, Scots pine, plant protection 1154
Lophodermium, Scots pine 1132
Naemacyclus niveus, Scots pine 10002
pine, Lophodermium 1129
Scots pine, Lophodermium pinastri 1135 1153
- Needle rust,**
Puccinistrum goeppertianum, balsam fir 8000
- Neem tree,**
Alternaria alternata 3615
Macrophoma collabens 1836
Periconia parasitica 7155
- Negamycin,**
analogues, antibacterial agent 642 5749
- Neisseria,**
carbohydrate fermentation medium 4960
cephalosporin derivatives 7394
- Neisseria (Contd),**
rapid carbohydrate fermentation test 10579
Tribrissen (sulphadiazine + trimethoprim) 2939
- Neisseria catarrhalis,**
azetidinone derivatives 3687
cephalosporin derivatives 1339 2211
- Neisseria catarhalis,**
cephalosporin derivatives 5665
- Neisseria gonorrhoeae,**
3214
6-aminopenicillanic acid derivatives 3778
ampicillin 2997 8118
antibiotic 19 402 R.P. 3798
antibiotics 2997
antigen, zeolite disruption 5136
bacteria 3990
brain heart infusion blood agar 7570
ceftezole 5654
cephalexin/cephradine/cefactor 6578
cephalosporin derivatives 2198
cephalosporin SQ 67,590 5662
cephalosporins 2195
chloramphenicol 8118
collection 6758
culture 2383 3989 5848
culture medium 5648 10582
cystine-trypticase agar/rapid carbohydrate degradation test/immunofluorescence 1573
doxycycline 8118
erythromycin 2997 8118
gardimycin 1419
gentamicin 5527 8118
gonocin 818
indirect immunofluorescence 3991
isolation medium 10581
Jemec system 5848
kanamycin 8118
L-form, polyvinylpyrrolidone medium 6780
New York City enrichment medium + biological environment carbon dioxide chamber 10580
oxytetracycline 5527
penicillin 2997 5527 8118 9084
penicillin resistance 9084
penicillin resistance, beta-lactamase 8051
penicillin resistance, beta-lactamase, R-factor 6478
penicillinase, paper strip test 9266
penicillinase, starch paper method 9425
preservation 4703
preservation, liquid medium 5608
pristinamycin 8118
Pseudomonas aeruginosa bacteriocin 647
radiolabelling 6779
rapid carbohydrate fermentation test 10579
resistance, gentamicin 5527
resistance, oxytetracycline 5527
resistance, penicillin 5527
resistance, penicillin G/tetracycline/amoxicillin/actinomycin D/streptomycin 2099
resistance, streptomycin 5527
resistance, sulphamethoxazole 5527
rifampicin 2997
rosamicin 10405
selective medium 9279
serotyping 7571
spectinomycin 2997
spiramycin 8118
streptomycin 2997 5527 8118
sulphamethoxazole 2997 5527 8973
sulphamethoxazole-trimethoprim 2997 8118 8973
tetracycline 2997 8118
transport 6758
transport system 5837
trimethoprim 2997 8973
- Neisseria gonorrhoeae vaccine,**
6663 9163

Subject index

- Neisseria lactamica**,
Pseudomonas aeruginosa bacteriocin 647
- Neisseria meningitidis**,
antibacterial agent 4724
antibiotics 4724 9042
blood culture 768
blood culture medium, microcalorimetry 10523
ceftezole 5654
cephalexin/cephradine/cefactor 6578
endotoxin-free polysaccharide, vaccine 7673
polysaccharide 5984
preservation 4703
preservation, freezing 4705
Pseudomonas aeruginosa bacteriocin 647
rapid carbohydrate fermentation test 10579
rosamicin 10405
sulphamethoxypyrazine 9042
sulphonamide sensitivity testing 4657
- Neisseria meningitidis vaccine**,
6663
endotoxin-free polysaccharide 7673
- Neisseria meningococcus**,
cefuroxime/cephalothin 10277
- Neisseria perflava**,
equisetin 1416
- Neisseriaceae**,
penicillin derivatives 1356 1357
- Nemafos**,
soil fungi 3653
- Nematicide**,
Dactylaria pyriformis 4149
Dactylaria thumasia 4149
1,3-dichloropropene, degradation, soil
microorganisms, Phytophthora parasitica
10078
fensulfothion, Sclerotium rolfsii/Rhizobium
solani/Trichoderma harzianum, soil/peanut
2086
nitrogen fixation, Rhizobium + broad bean
6443
soil fungi 3653
tobacco rattle virus, gladiolus 4480
Trichoderma, tobacco rattle virus, potato
7928
- Nematode**,
+ Fusarium oxysporum, ninde 2750
+ Pythium polymorphon, celery 1918
+ Rhizoctonia solani, tomato 9903
+ Thielaviopsis basicola, cherry replant
disease 5352
+ Verticillium dahliae, tomato 4428
Cylindrocarpum destructans, Douglas fir 8844
Fusarium oxysporum, tomato 8742
Meloidogyne incognita-inhibiting substance,
Rhizoctonia solani, potato 3526
nematicide, tobacco rattle virus, gladiolus
4480
Pythium polymorphon, celery 7911
rickettsia-like organism, grapevine yellows
disease 9869
root-knot, bottle gourd mosaic virus, bottle
gourd 2740
root-knot, brinjal mosaic virus, brinjal
2740
tobacco necrosis virus, bean 7110
tobacco rattle virus, potato, nematicide
7928
tobacco rattle virus, tobacco 3536
tomato, Fusarium oxysporum resistance 1992
- Nematode-attracting substance**,
Dactylaria pyriformis 4149
nematicide 4149
- Nematospore**,
acetoin 3344
diacetyl 3344
- Nematospore coryli**,
acetoin 3344
diacetyl 3344
soybean seed 1860
- Nemesia strumosa**,
+ Rhizobium, nitrogen fixation 10063
- beta-neoagarotetraose hydrolase**,
Pseudomonas atlantica 7640
- Neoechinulin A**,
Aspergillus amstelodami 10390
- Neoechinulin B**,
Aspergillus amstelodami 10390
- Neoechinulin C**,
Aspergillus amstelodami 10390
- Neoechinulin D**,
Aspergillus amstelodami 10390
- Neoechinulin E**,
Aspergillus amstelodami 10390
- Neomycin**,
10258
6-deoxy-, derivatives, Streptomyces fradiae
5681
antibacterial agent 3755
antibacterial agent, Coulter Counter 6595
antibiotic mixture, microbiological assay
2990
antibiotics 2999
assay 9033
assay, Staphylococcus aminoglycoside
4-adenylyltransferase 2183
Bacillus coagulans, lysine 6831
Bacillus megaterium, lysine 6831
enterobacteria 9040
Escherichia coli 3671
hydroxypropyl methylcellulose artificial tear
solution 4712
mastitic milk fermentation, cattle feed 4229
milk, assay, Sarcina lutea/Bacillus subtilis
5206
milk, thin-layer chromatography 1722
neamine, Streptomyces fradiae/Streptomyces
rimosus 3041
resistance, bacteria, meat 1748
resistance, Escherichia coli 3671
resistance, Escherichia coli, antibiotics
2098
resistance, Pseudomonas aeruginosa 3749
resistance, Rhizobium 2924
resistance, Salmonella 7300
resistance, Salmonella typhi, antibiotics
2098
resistance, Staphylococcus epidermidis,
tobramycin adenylyltransferase 6491
Salmonella 1307
spectrophotometry 610
Staphylococcus 1308
Streptococcus 3751
Streptococcus mutans 552
Streptomyces fradiae 2171 2180 2181 3783
veterinary topical product, antibacterial
agent/antifungal agent 2970
vitamins/nicotinamide/p-aminobenzoic acid
2991
Yersinia enterocolitica 4730
Yersinia pseudotuberculosis 4744
- Neomycin B**,
derivatives, antibacterial agent 10308
- Neomycin C**,
10307
derivatives, antibacterial agent 10308
- Neosolanol**,
Fusarium 2619
- Neotelomycin**,
antibacterial agent 10391
derivatives, Bacillus megaterium 9144
- Neothramycin**,
Streptomyces, antitumour antibiotic 9462
- Neotropin**,
antiviral agent 1322
- Neovossia horrida**,
rice, fungicide 9961
- Neovossia indica**,
sporulation medium 3200

Subject index

- Nephotettix cincticeps,**
rice dwarf disease virus, rice, cartap 7962
rice yellow dwarf virus, rice, resistance 9931
- Nerol,**
oxidation, *Arthrobacter* 6984
- Mesocylutha pallida,**
cereal chlorotic mottle virus, Gramineae 7117
- Nessler's reagent,**
lysine/ornithine/arginine degradation, Enterobacteriaceae 4936
- Net blotch,**
Drechslera dictyoides, perennial ryegrass, phylloplane bacteria 7889
Drechslera teres, barley 6206
Helminthosporium teres, barley 4315 8629
Pyrenophora teres, barley 3477 6207 9777
Pyrenophora teres, barley, resistance 9777
- Netilmicin,**
+
carbenicillin/cefazolin/chloramphenicol/clindamycin, antibacterial agent 1428
+ carbenicillin, *Serratia marcescens* 4743
+ nafcillin, *Staphylococcus aureus* 10302
+ oxacillin, *Staphylococcus aureus* 10302
+ penicillin G, *Streptococcus faecalis* 5752
+ penicillin G, *Streptococcus faecium* 5752
+ penicillin, *Streptococcus* group D 10253
antibacterial agent 563 1429 2186 3814 3815 4741 5750 5751 5752 6644 8130 9145 10260 10393
antibacterial agent, antibiotic sensitivity testing 10392
Enterobacteriaceae 2184 2185
Pseudomonas aeruginosa 1321 2184 2185
radioimmunoassay 7439
resistance, *Serratia marcescens* 4743
Serratia marcescens 4743
serum, high-pressure liquid chromatography assay 7414
Staphylococcus aureus 10302
Yersinia enterocolitica 6551
- Metoprosin,**
DNA 7424
- Mettle,**
horse, tobacco etch virus 1936
- Neuraminidase,**
Arthrobacter 5078
bacterial 33
Streptomyces griseus 9421
viral 33
- Neurospora,**
2659
antibiotic A16884 6619
culture 4983
fermented food 4190
- Neurospora crassa,**
antibiotic A-26771 1390
cellulase 6870
ergosterol, structure, proton magnetic resonance spectroscopy 9440
mitochondrial D-amino acid oxidase 5048
polyene antibiotics, sterols 5647
proteinase inhibitor 8333
L-saccharopin 887
epsilon-N-trimethyllysine deaminase 4111
tripolyphosphatase 3324
- Neurospora dodgei,**
soil 6431
- Neurospora sitophila,**
oil palm kernels 4220
peanut 2595 3407
peanut press cake fermentation 3408
protease 8390
- Neurotoxin,**
Clostridium botulinum 1829
- Neutralization,**
mycotoxins, ethylene oxide/methyl formate 4253
- Neutralization test,**
mumps virus antibody 1606
- Newcastle disease virus,**
antibody-neutralised, reactivation 10636
avian cell culture, HEPES buffer 4989
buffalo embryo cell culture, vaccine 9301
cell culture, gentamicin 611
continuous-flow ultracentrifugation 3205
diluents 1450
disinfectants 1241
disruption, vaccine 2276
flow microphotometry 4920
haemagglutination/haemagglutination-inhibition, lyophilised chick erythrocytes 1606
interferon 519
liquid antibody microculture plaque assay 10626
milk, pasteurization 4236
poultry, adamantyl thioamides 2126
- Newcastle disease virus vaccine,**
2276 9301
- Newsprint,**
Trichoderma viride enzyme, yeast/ethanol/electrical power 2432
- Niacin,**
+ yeast, tablet 806
- Niacin test,**
Mycobacterium tuberculosis 2382
- Nicandra physaloides,**
oidium 6275
- Nickel,**
+ penicillins 9079
fungicide, wheat 2012
- Nickel sulphate,**
Melampsora larici-populina, poplar 2047
- Nicotiana,**
cucumber mosaic virus, purification 3207
resistance, *Peronospora tabacina* 8778
resistance, *Thielaviopsis basicola* + tobacco mosaic virus + wildfire 4477
tobacco mosaic virus 6276
- Nicotiana clevelandii,**
Daphne virus Y 3511
hop mosaic virus 1064
- Nicotiana clevelandii x Nicotiana glutinosa,**
belladonna mottle virus 5363
- Nicotiana glutinosa,**
grapevine leafroll virus 7915
tobacco mosaic virus 7156 9898
tobacco mosaic virus, cabbage leaf extract 516
tobacco mosaic virus, Dahlia leaf extract 3590
tobacco mosaic virus, virus-infection stimulating factor 8737
- Nicotiana knightiana,**
tomato spotted wilt virus, electron microscopy 7178
- Nicotiana otophora,**
resistance, *Peronospora tabacina* 8778
- Nicotiana rustica,**
alfalfa mosaic virus, heat treatment 1995
cucumber mosaic virus, heat treatment 1995
tomato spotted wilt virus, electron microscopy 7178
- Nicotiana tabacum,**
+ *Rhizobium japonicum*, nitrogen fixation 4596
+ *Rhizobium lupini*, nitrogen fixation 4596
+ *Rhizobium*, nitrogen fixation 2076
Alternaria alternata, biological control 5416
Alternaria alternata, biological control, *Bacillus cereus* 9955
beet curly top virus, latex flocculation assay 10628
callus culture, tobacco mosaic virus 5294
Cercospora nicotianae 1959

Subject index

Nicotiana tabacum(Contd),

- coconut root wilt virus, immunofluorescence 1958
- cucumber mosaic virus 4365
- Erwinia carotovora, microwave irradiation seed treatment 9990
- Phytophthora parasitica 6305
- Phytophthora cryptogea 6305 6306
- Phytophthora cryptogea extracts 7937
- Phytophthora nicotianae, soil fumigant 9971
- Phytophthora parasitica extracts 7937
- Phytophthora parasitica, fungicide 9972
- polyanion-induced resistance, tobacco 1994
- potato virus X, virazole 7985
- potato virus Y 6304
- potato virus YN 9897
- Pseudomonas lachrymans, Pseudomonas phaseolicola toxin 7179
- Pseudomonas morsprunorum lipopolysaccharide 2519
- Pseudomonas phaseolicola, Pseudomonas phaseolicola toxin 7179
- Pseudomonas pisi, Pseudomonas phaseolicola toxin 7179
- Pseudomonas solanacearum 9944
- Pseudomonas syringae, Erwinia chrysanthemi protein + lipopolysaccharide 3594
- Pseudomonas tabaci, triazinedione derivatives 1119
- resistance, Phytophthora nicotianae 9945
- resistance, Pseudomonas solanacearum 9944
- resistance, tobacco mosaic virus 4476
- resistance, tobacco necrosis virus 4476
- rhizosphere mycoflora 1165
- tissue culture, fusaric acid 7066
- tobacco 7936
- tobacco mosaic virus 2657 3532 3533 9898 8738
- tobacco mosaic virus, cabbage leaf extract 516
- tobacco mosaic virus, carbendazim 2819
- tobacco mosaic virus, kinetin 3534
- tobacco mosaic virus, poly-L-lysine/poly-L-arginine 3535
- tobacco mosaic virus, sodium dodecyl sulphate/triton X/Tween 80 5435
- tobacco rattle virus, Trichodorus 3536
- tomato spotted wilt virus, electron microscopy 7178
- Verticillium dahliae 3537
- Nicotiana velutina mosaic virus,** 1908
- Nicotinamide,** antibiotics 2991
- Nicotinamide nucleotide transhydrogenase,** Pseudomonas aeruginosa 855
- Nicotine,** soil, Fusarium solani, bean 10073
- Nicotinic acid,** beer/yeast, assay, Lactobacillus plantarum 416C
- microbiological assay, beer, yeast 6016
- plasma, assay, Lactobacillus plantarum 10565
- Nicotinic acid ribonucleoside,** Aspergillus niger 9450
- Niddamycin,** leucomycin A1/leucomycin A3/carbomycin B + derivatives, antibacterial agent 4817
- Nidurufin,** dimethyl-, mass spectrometry 5259
- Nigericin,** numbering system 1384
- Streptomyces hygroscopicus 7423
- yeasts 2170
- Nigrospora,** corn 9786
- Nigrospora oryzae,** + Fusarium moniliforme/Gibberella zeae/Helminthosporium carbonum/Sclerotium bataticola, corn 9787
- auricula tree 1837

Nigrospora oryzae(Contd),

- corn 6214
- corn, resistance 6406
- Datura metel 1837
- malabar nut tree 1837
- toxin, rice 976
- Nigrospora sphaerica,** pectolytic enzymes 7643
- pyridine derivatives 2823
- Nimorazole,** Bacteroides 8068
- Ninde,** Fusarium oxysporum + Meliodogyne javanica 2750
- Nipagin M,** preservative, bactericide 2157
- Nipagin P,** preservative, bactericide 2157
- Nisin,** antibacterial agent, dairy industry 8540
- Bacillus cereus spores 1431
- Bacillus coagulans spores 1430
- Bacillus licheniformis spores 1430
- Bacillus megaterium spores 1430
- Bacillus polymyxa spores 1430
- Bacillus sphaericus spores 1430
- Bacillus stearothermophilus spores 1430
- Bacillus subtilis spores 1430 1431 1432 1433
- Clostridium sporogenes spores 1430
- Clostridium welchii spores 1430 1433
- dried boliti fish 1794
- milk preservation 961 962
- sterilised milk, Bacillus subtilis/Bacillus stearothermophilus 1785
- Streptococcus lactis 4818
- Nitrate,** bacon curing 5256
- denitrification, soil, nitrogen isotope effect 8889 8890
- Gouda cheese, nitrosamine 7755
- reduction, Micrococcus, dry sausage 9581
- reduction, Vibrio, dry sausage 9581
- Rhizobium + legume, nodulation, nitrogen fixation 8027
- Saccharomyces carlsbergensis, brewing 5174
- waste, fixed-film denitrification 10452
- wastewater, nitrification, denitrification 6711
- Nitrate-reducing bacterium,** food, nitrite, nitroso compound 8515
- Nitrate reductase,** Azotobacter vinelandii 5079
- bacterial 3216
- Candida utilis 1664
- denitrifying bacteria, activated sludge/drinking water 5962
- Escherichia coli 6905
- Escherichia coli, immobilisation 8375
- Rhizobium japonicum 2485
- Spirillum lipoferum, soil, denitrification 5500
- Nitrate reductase test,** anaerobic bacteria 10546
- yeasts 10613
- Nitrate reduction,** soil, Bacillus filaris/Bacillus polymyxa 442
- Nitrate reduction test,** pasteurised milk 137
- Nitrification,** activated sludge 2298
- activated sludge, waste treatment 10437
- bacterial, clinoptilolite regeneration 8218
- 8219
- flooded soil 5485
- forest soil, cacodylic acid 7265
- forest soil, monosodium methanearsonate 7265
- histosol, Arthrobacter 7267
- Nitrobacter/Nitrosomonas, wastewater treatment 686
- rhizosphere 3642

Subject index

Nitrification(Contd),

- sewage sludge, soil 7268
- sewage treatment 9176
- soil 439 440 10041
- soil, ammonium fertilizer 6435
- soil, *Aspergillus carneus*, benomyl 2874
- soil, *Azotobacter*, tetrapropylene sodium alkyl benzenesulphonate detergent 6416
- soil, herbicide 5502
- soil, manure 6435
- soil microorganisms 1161
- soil microorganisms, benomyl 8888
- soil microorganisms, irrigation 4603
- soil microorganisms, straw degradation, microbiocides 8929
- soil, *Nitrobacter* immunofluorescence 10060
- soil, *Nitrosolobus* 7266
- soil, *Nitrosomonas* 7266
- soil, *Nitrosoira* 7266
- soil, Nuvocron/Supracids 2895
- swine manure slurry 1457
- urea nitrogen, soil, biuret 10056
- urea, tropical soil 456
- wastewater 1483 3116
- wastewater treatment 1456 3122 6711

Nitrifying bacterium,

- filter, water purification 1502

Nitrite,

- wastewater, treatment, *Nocardia rubropertincta* 1473

Nitritotriacetic acid,

- microbial degradation 9523

Nitrite,

- bacteriostat, silage 1774
- beer wort 9511
- carrot juice 7777
- Clostridium botulinum*, canned meat 9678
- food, nitrate-reducing bacteria, nitroso compound 8515
- sausage preservation, *Salmonella senftenberg* 9583
- wastewater, nitrification, denitrification 6711

7-[2-(5-Nitro-2-furyl)vinyl]-1,8-,

- derivatives, antibacterial agent 3685

3-Nitro-10,

- chicken feed 952

Nitroakridin,

- + ampicillin, *Salmonella typhimurium* 4766

Nitrobacter,

- bactericide, cooling tower 7345
- nitrification, wastewater treatment 686
- soil, immunofluorescence 10060
- soil, nitrification, benomyl 8888
- soil, nitrification, herbicide 5502
- wastewater treatment 1483

beta-Nitroethanol,

- derivatives, bacteriostat 8984

Nitrofurantoin,

- antimicrobial agent 8097
- derivatives, antibacterial agent 1220
- derivatives, *Staphylococcus* 3001
- resistance, *Shigella* 5524
- selective medium, *Micrococcus* 3995
- Staphylococcus* 1309

Nitrofurantoin, arylpropenone,

- derivatives, antibacterial agent 8974

Nitrofurantoin,

- analogue, antibacterial agent 7321
- antibacterial sensitivity, dip-slide 2931
- Enterobacter aerogenes* 1214
- Escherichia coli* 1214 7368
- Klebsiella* 7368
- Klebsiella pneumoniae* 1214
- Proteus* 7368
- Proteus mirabilis* 1214
- Pseudomonas aeruginosa* 1214 6550 7368
- Pseudomonas pseudomallei* 8117
- resistance, *Escherichia coli* 6475
- resistance, *Salmonella* 8949

Nitrofurantoin(Contd),

- Staphylococcus* 7368
- Staphylococcus aureus* 1214
- Streptococcus* 7368
- Streptococcus faecalis* 1214
- Streptococcus* group D 7368

Nitrofurazone,

- resistance, coliforms, food 6028
- resistance, *Escherichia coli*, food 6028
- resistance, *Salmonella* 8948
- Streptococcus* 3751

Nitrofuryl,

- + benzoisothiazolinone, derivatives, antibacterial agent 10159

Nitrofuryl-vinyl-anilino-quinazoline,

- derivatives, bactericide, animal feed 6504

5-Nitrofurylacrylic acid,

- antibacterial agent/antifungal agent, wine 3359

Nitrogen,

- fertilizer, soil, denitrification 1171
- Helminthosporium sativum*, barley 4328
- liquid, *Agaricus bisporus* preservation, polypropylene drinking straw 4708
- rice rhizosphere 6407
- soil fungi 2873
- soil, *Glomus mosseae* mycorrhiza + *Liquidambar styraciflora* 4527
- transformation, soil microflora 3624
- urea, soil, transformation, biuret 10056
- weed rhizosphere 6407

Nitrogen cycle,

- 3216
- soil 5484

Nitrogen dioxide,

- transformation, soil microorganisms 1161

Nitrogen fertiliser,

- see Fertiliser, nitrogen

Nitrogen fixation,

- 797 3216 3219 5872 9308
- Acacia cyanophylla* nodules 8897
- acetylene reduction assay 2889 7272
- alder 2877
- Amorpha canescens* 2878
- antibiotic-resistant *Rhizobium* + *Lotus pedunculatus* 10067
- aquatic grass rhizosphere 3644
- Azotobacter*, *Aristida oligantha* rhizosphere bacteria 2075
- Azotobacter chroococcum* + gram 5495
- Azotobacter* + corn 2633
- Azotobacter*, plant rhizosphere 6439
- Azotobacter vinelandii*, soil, herbicide 5504
- bacteria + bahia grass 8895
- bacteria + pangola grass 8895
- Beijerinckia indica* + gram 5495
- Beijerinckia*, rice rhizosphere, immunofluorescence 5486
- Cassia fasciculata* 2878
- corn soil cores 6437
- Enterobacteriaceae*, paper mill water system 1493
- genetic manipulation 8893
- grasses 4597
- Juncus balticus* 6436
- Lespedeza capitata* 2878
- lupin nodule 2081
- marsh soil microorganisms + *Spartina alterniflora* 6438
- Methylococcus capsulatus*, acetylene reduction test 2380
- mung bean + *Rhizobium phaseoli* 7274
- nitrogen-fixing bacteria + legume, inoculation device 8025
- nitrogenase 6440
- pea + *Rhizobium leguminosarum* 8909
- peanut nodules, groundnut chlorotic spot virus 1013
- peat 2071
- Psoralea argophylla* 2878

Subject index

Nitrogen fixation(Contd),

Rhizobium 2073 2880 3647 6440 7271
 Rhizobium + alfalfa 5488 5489
 Rhizobium, *Aristida oligantha* rhizosphere bacteria 2C75
 Rhizobium + *Aspalathus linearis* 8028
 Rhizobium + *axillaris* 446
 Rhizobium + bean 447
 Rhizobium + black gram 7275
 Rhizobium + broad bean 8903
 Rhizobium + broad bean, pesticides 4443
 Rhizobium + *Caesalinioidae* 8900
 Rhizobium + chickpea 4582 6444 8029
 Rhizobium + chickpea, proteins 2883
 Rhizobium + clover 5488
 Rhizobium, coal-bentonite base carrier 2074
 Rhizobium + cowpea 4587 8911 10066
 Rhizobium + cowpea, nitrogenase 5494
 Rhizobium + cowpea nodule protoplasts 4588
 Rhizobium + *Glycine wightii* 8904
 Rhizobium + gram 5495 5496
 Rhizobium + gram, soil microorganisms 3646
 Rhizobium + green gram 7275
 Rhizobium + horse bean 448
 Rhizobium + *Ipomoea tricolor* 10063
 Rhizobium japonicum 2073
 Rhizobium japonicum + *Azotobacter chroococcum* + soybean 1174
 Rhizobium japonicum, soil, herbicide 5504
 Rhizobium japonicum + soybean 451 1172 1173 2082 2890 5493 6447 8033 8912 8913
 Rhizobium japonicum + soybean, nitrate reductase 2485
 Rhizobium japonicum + soybean, nodulation 8032
 Rhizobium japonicum + soybean, *Rhizoctonia solani* 3472
 Rhizobium japonicum + soybean, soybean mosaic virus 6196
 Rhizobium japonicum + soybean, soybean, + *Rhizobium japonicum*, nitrogen fixation 8914
 Rhizobium japonicum + soybean, urea 4595
 Rhizobium japonicum + tobacco 4596
 Rhizobium japonicum + wheat 4594
 Rhizobium + legume 2077 2080 2875 4580 5872
 Rhizobium + legume, filter mud carrier 2879
 Rhizobium + legume, fungicide resistance, seed treatment 7273
 Rhizobium + legume, glutamine synthetase 8026
 Rhizobium + legume, lectins 8899
 Rhizobium + legume, nitrate 8027
 Rhizobium leguminosarum + broad bean 8902
 Rhizobium leguminosarum + pea 6446
 Rhizobium leguminosarum + pea, bacteroid 4590
 Rhizobium + *Leptonis bainesii* 8905
 Rhizobium + *Lotus corniculatus*, nodulation 8907 9806
 Rhizobium + *Lotus hispidus*, nodulation 9806
 Rhizobium lupini + lupin 2887 5497
 Rhizobium lupini + lupin, radioisotope assay 8908
 Rhizobium lupini + tobacco 4596
 Rhizobium lupini + wheat 4596
 Rhizobium + *Lupinus angustifolius* 10069
 Rhizobium meliloti + alfalfa 10064
 Rhizobium meliloti + alfalfa, ammonium nitrate fertilizer 5490
 Rhizobium meliloti + alfalfa, nodule, electron microscopy 6442
 Rhizobium meliloti + alfalfa, soil pH 10065
 Rhizobium + *Mimosoidae* 8900
 Rhizobium + mung bean, proteins 2883
 Rhizobium + *Nemesia strumosa* 10063
 Rhizobium + *Papilionoideae* 8900
 Rhizobium + pea 4591
 Rhizobium + pea, glycine/D-norvaline 4592
 Rhizobium + peanut 4582
 Rhizobium + *Petunia hybrida* 10063

Nitrogen fixation(Contd),

Rhizobium phaseoli + bean 5491 8901
 Rhizobium + pigeon pea 4582
 Rhizobium + *Portulaca grandiflora* 10063
 Rhizobium + sainfoin 8910
 Rhizobium + *Siratro* 446
 Rhizobium, soil 3651
 Rhizobium + soybean 452 2891 3650 3651 4593 8911
 Rhizobium + soybean, rhizosphere oxygen 7276
 Rhizobium + soybean, seed treatment, fungicide 10070
 Rhizobium + soybean, soil water 4595
 Rhizobium + soybean, urea 7277
 Rhizobium + *Stylosanthes guyanensis* 2084
 Rhizobium + *Stylosanthes guyanensis*, nodulation 8907 9806
 Rhizobium + *Stylosanthes humilis*, nodulation 9074
 Rhizobium + subterranean clover 8904
 Rhizobium + sunn hemp 7275
 Rhizobium + tobacco 2074
 Rhizobium trifolii + Caucasian clover 6445
 Rhizobium trifolii + clover 450 2079 5492
 Rhizobium trifolii + clover, acetylene reduction assay 2882
 Rhizobium trifolii + red clover, soil pH 10065
 Rhizobium trifolii + subterranean clover 2884 2885
 Rhizobium trifolii + white clover 449 2887
 Rhizobium + winged bean 4583
 rice, acetylene reduction assay 8896
 rice rhizosphere 3645 10042
 rice soil 2876
 salt marsh, microorganisms + *Spartina alterniflora* 7269
Schrankia uncinata 2878
 soil 2413 2875 3220 3623 4579 6440 8023
 soil, acetylene assay 10057
 soil, *Azotobacter chroococcum* 8894
 soil bacteria 5872
 soil, *Clostridium* 2058
 soil microorganisms 10058
 soil, molybdenum 8024
 soil, nitrogen fertiliser 8892
 soil, rhizosphere 3626
 soil water 5002
Sorghum vulgare soil cores 6437
 soybean + Rhizobium 2083 8031
 Spirillum + *Amaranthus spinosa* 5501
 Spirillum + *Bermuda grass* 5501
 Spirillum + corn 453 5501
 Spirillum + *Ficus religiosa* 5501
 Spirillum lipoferum 3296
 Spirillum lipoferum + guinea grass 2893
 Spirillum lipoferum + pearl millet 2893
 Spirillum lipoferum + plants 4967
 Spirillum lipoferum, soil 2085 5499 5500
 Spirillum + *Panicum* 5501
 Spirillum + *Phyllanthus parviflorus* 5501
 Spirillum + *Portulacca* 5501
 Spirillum + *Potamogeton filiformis* 2894
 Spirillum + rice 5501
 Spirillum + *Setaria* 5501
 Spirillum + sorghum 453 5501
 Spirillum + *Xanthium strumarium* 5501
 Stereocaulon paschale, forest soil 8915
 wheat rhizosphere 4579
Nitrogen isotope effect,
 soil nitrate denitrification 8889 8890
Nitrogen transformation,
 soil 439
 soil, leaching 438
Nitrogenase,
Azotobacter chroococcum 5487
Azotobacter, nitrogen fixation 3220
Bacillus polymyxa 5487
 bacterial 3216

subject index

- nitrogenase (Contd),**
Methylococcus capsulatus, acetylene reduction test 2380
 nitrogen fixation 797 3220 6440
 nitrogen fixation, grasses 4597
 nitrogen fixation, *Rhizobium japonicum* + soybean 8913
 peat 2071
Rhizobium, nitrogen fixation 2880
Rhizobium, nitrogen fixation, cowpea 5494
Rhizobium vigna 54K7
Rhodospirillum rubrum, iron protein 3245
Spirillum lipoferum 3296
Spirillum lipoferum, soil, nitrogen fixation 5500
nitroimidazole,
 1-methyl-2-isopropyl-, animal feed, *Sphaerophorus necrophorus* 1773
 antibacterial agent 8096
 antimicrobial agent 8096 & 8097
 derivative, *Pasteurella*/*Yersinia* 2114
 derivatives, antibacterial agent 2112 2113
 derivatives, antibacterial agent/antifungal agent 1270
nitroimidazole-pyrimidine,
 derivatives, antibacterial agent 4661
nitroimidazolyl-acetylpropenoic acid,
 derivatives, antibacterial agent/antifungal agent 2136
nitroimidazolyl-pyrazole,
 derivatives, antibacterial agent/antifungal agent, animal feed 9625
troperhydropyridodiazepine,
 derivatives, antibacterial agent/antifungal agent 2976
tropenol,
 degradation, *Bacillus*, soil, parathion 6448
 degradation, *Pseudomonas*, soil, parathion 6448
Nitrophenyl-alpha-D-galactopyranoside,
 hydrolysis, *Mortierella vinacea*
 alpha-galactosidase 3272
Nitrophenyl-beta-D-glucoside,
 hydrolysis, *Trichoderma viride* cellobiase 5054
tropenyl ester,
 fungicide, plant protection, fungal/plant esterase 7981
Nitrophenyl mercapto acetic acid hydrazide,
 antibacterial agent 7327
Nitropropane dioxygenase,
Hansenula mrakii 2486
tropyrrole,
 derivatives, antimicrobial agent 9004
trossamine,
 Gouda cheese 7755
troso compound,
 food, nitrate-reducing bacteria 8515
Nitroso-N-cyclohexylhydroxylamine,
 + methyl-2-benzimidazole carbamate, fungicide 2053
Nitroso-N-methylbiuret,
Didymocladium ternatum, termatin 9156
Penicillium chrysogenum 5667
Penicillium nigricans, griseofulvin, ultraviolet irradiation 1377
Nitroso-N-methylcarbamate,
 mutagenicity assay, *Escherichia coli*/*Bacillus subtilis* 3965
Nitrosodimethylamine,
Escherichia coli 8433
trosolobus,
 soil 7266
trosonomas,
 nitrification, sewage treatment 9176
 nitrification, wastewater treatment 686
 soil 7266
 soil, nitrification, benomyl 8888
 soil, nitrification, herbicide 5502
 wastewater treatment 1483
Nitrospiraea,
 soil 7266
Nitrostyrene,
 derivatives, antibacterial agent/antifungal agent 9010
Nitrothiazole,
 derivatives, antimicrobial agent 9005
 derivatives, bacteriostat/fungistat 1269
 derivatives, fungistat 2121
Nitrothienyl,
 + benzoisothiazolinone, derivatives, antibacterial agent 10159
5-Nitroureacil,
 cucumber mosaic virus, chilli 8634
Nitrous acid,
 mutagen, *Claviceps purpurea* 4961
Nitrous acid extraction,
Streptococcus 1577
Nitrous oxide,
Escherichia coli 10139
 reduction, soil, acetylene 10057
Nocardamine,
Streptomyces hygroscopicus 7423
Nocardia,
 9306
 activated sludge, non-ionic surfactant degradation 1709
 acylase, 7-aminocephalosporanic acid derivatives 2207
 antibiotic EM 123 3058
 collection 6755
 1,2-dehydrogenation, D-homosteroid 5978
 estuarine water/sediment, petroleum degradation, numerical taxonomy 10109
 immunological adjuvant 3226
 marine, petroleum degradation 10111
 methane chemostat culture 10097
 mouldy hay, sedimentation chamber 3163
 mycolic acid 3966
 nocardicin A 4819
 nocardicin A, structure 5753
 nocardicin B 4819
 nocardicin B, structure 5753
 rhizosphere, molybdenum 6415
 beta-sitosterol degradation, ketosteroids 8401
 soil 5475
 soil, aldrin degradation, exo-dieldrin 10074
 soil, degradation, acid anilide fungicides 1179
 soil, novobiocin isolation medium 5471
 soil, phthalic acid degradation 2057
 sublimation dehydration preservation 2981
 transport 6756
 water, dodecylbenzene sodium sulphonate degradation 6723
Nocardia asteroides,
 antibiotic KM-214 2243
 asukamycin 5719
 culture 1574
 mannophosphoinositides 2520
 oil degradation, mercury 4623
 preservation 4703
 soil 5475
Nocardia blackwellii,
 activated sludge, non-ionic surfactant degradation 1709
Nocardia brasiliensis,
 culture 1574
Nocardia calcaria,
 soil 5475
Nocardia caviae,
 culture 1574
Nocardia corallina,
 oil degradation, mercury 4623
 prodigiosin 6188
 soil, humate 2859
 soil, montmorillonite 2859

Subject index

- Nocardia erythropolis**,
soil 5475
- Nocardia flava**,
soil 5475
- Nocardia flavescens**,
soil 5475
- Nocardia gardneri**,
penicillin amidase, 6-aminopenicillanic acid 598
penicillin amidase, + penicillin, 6-amino-penicillanic acid 4763
- Nocardia globularis**,
DDT degradation 9526
- Nocardia globularis**,
soil, humate 2859
soil, montmorillonite 2859
- Nocardia mediterranei**,
rifamycin, C-13 nuclear magnetic resonance spectroscopy 10530
rifamycin G 2228
- Nocardia opaca**,
adjuvant, vaccines 8201
catechol 1,2-dioxygenase, 3-methylcatechol 5924
prodigiosin 8188
RNA, heat treatment 5116
- Nocardia otitidis caviarum**,
oil degradation, mercury 4623
- Nocardia restrictus**,
steroid alkaloid dehydrogenation 9439
- Nocardia rubra**,
DDT degradation 9526
soil 5475
- Nocardia rubropertincta**,
nitrile/cyanide wastewater treatment 1473
soil 5475
soil, humate 2859
soil, montmorillonite 2859
- Nocardia salmonicolor**,
cannabinoid transformation 8426
soil 5475
- Nocardia ucrainica**,
soil 5475
- Nocardia uniformis**,
nocardicin A 1434
nocardicin B, antibacterial agent 7440
- Nocardicin**,
9501
- Nocardicin A**,
Nocardia 4819
Nocardia uniformis, antibacterial agent 1434
structure 5753
- Nocardicin B**,
Nocardia 4819
Nocardia uniformis, antibacterial agent 7440
structure 5753
- Nodulation**,
alfalfa, Rhizobium meliloti, ammonium nitrate fertilizer 5490
alfalfa, Rhizobium meliloti, Phytophthora megasperma 5301
alfalfa, Rhizobium, polygalacturonase 3648
Amorpha canescens 2878
Aspalathus linearis, Rhizobium, nitrogen fixation 8028
bean mung, Rhizobium, antifungal agent 3649
black gram, Rhizobium 7275
Cassia fasciculata 2878
chickpea, Rhizobium 8029
Coriaria myrtifolia 3652
fennel, Rhizobium, subamycin 2886
Glycine wightii, Rhizobium 8904
gram, Azotobacter chroococcum 5495
gram, Beijerinckia indica 5495
gram, Rhizobium 5495 5496
gram, Rhizobium, soil microorganisms 3646
green gram, Rhizobium 7275
legume 2078
Lespedeza copitata 2878
Lotus corniculatus, Rhizobium 9806
- Nodulation (Contd.)**,
Lotus corniculatus, Rhizobium, nitrogen fixation 8907
Lotus hispidus, Rhizobium 9806
Lotus pedunculatus, antibiotics-resistant Rhizobium 10067
Lupinus angustifolius, Rhizobium 10068
oat, Rhizobium 4591
pea, Rhizobium leguminosarum 6446
Psoralea argophylla 2878
Rhizobium + axillaris 446
Rhizobium + Caesalpinioideae, nitrogen fixation 8900
Rhizobium + chickpea, nitrogen fixation 6444
Rhizobium japonicum, soybean 451 1172
Rhizobium, legume, nitrate, nitrogen fixation 8027
Rhizobium lupini + lupin 2887
Rhizobium + Mimosoideae, nitrogen fixation 8900
Rhizobium + Papilionoideae, nitrogen fixation 8900
Rhizobium + Siratro 446
Rhizobium trifolii + clover 450 2079 5492
Rhizobium trifolii + subterranean clover 2884 2885
Rhizobium trifolii + white clover 2887
Schrunkia uncinata 2878
soybean, Rhizobium 2083 3650 8031
soybean, Rhizobium japonicum 2082 8030 8032
soybean, Rhizobium japonicum + Azotobacter chroococcum 1174
soybean, Rhizobium japonicum, nitrogen fixation 8033
soybean, Rhizobium, urea 7277
Stylosanthes guyanensis, Rhizobium 2084 9806
Stylosanthes guyanensis, Rhizobium, nitrogen fixation 8907
Stylosanthes humilis, Rhizobium 9806
subterranean clover, Rhizobium 8904
subterranean clover, Rhizobium trifolii 4586
sunhemp, Rhizobium 7275
Trigonella foenum-graecum, rhizosphere fungi 2064
winged bean, Rhizobium 4583
- Nodule**,
Acacia cyanophylla, nitrogen fixation 8897
alfalfa, Rhizobium meliloti, electron microscopy 6442
coupea, protoplasts, Rhizobium, nitrogen fixation 4588
lupin, nitrogen fixation 2081
lupin, soil microorganisms 2888
peanut, groundnut chlorotic spot virus 1013
soybean, Rhizobium, nitrogen fixation 452
soybean, Rhizoctonia solani 3472
soybean, soybean mosaic virus 3470
- Nodulisporium**,
sugar maple 8856
- Nodulisporium hirsutum**,
apple post-harvest decay 4431
- Nogalamycin**,
bacterial reduction 1383
- Nojirimycin**,
D-gluconic-delta-lactam, microbial glucose oxidase/glucose dehydrogenase 1435
Streptomyces ficellus, antibacterial agent 5734
- Nolina microcarpa**,
Clintonia nolinae 5381
- Nomuraea rileyi**,
spore collection device 3201
- Non-sterile product**,
preservation 539
- Nonactin**,
ion complexation, Raman spectroscopy 6617
- 2-Nonenal**,
fungi, wheat seed 407
- Nopal**,
fruit, Candida utilis, protein 5903 5904

Subject index

- Nopaline,**
Agrobacterium radiobacter, crown gall 3456
- Norglaucine,**
 glaucine transformation, *Streptomyces griseus* 6954
- Norsolorinic acid,**
 aflatoxin B₁, *Aspergillus parasiticus* 5268
- North Sea gas,**
 fermentation, microbial protein, gas flow measurement 2542
- Northern anthracnose,**
Kabatella caulivora, subterranean clover 6185
- Northern leaf blight,**
Drechslera turcica, corn 7123 8637
Helminthosporium turcicum, corn 9792
Helminthosporium turcicum, corn, resistance 7198
- Nortryptoquivaline,**
Aspergillus clavatus 7076
- Nortryptoquivalone,**
Aspergillus clavatus 7076
- Norvaline,**
Serratia marcescens 8321
- D-Norvaline,**
 pea, *Rhizobium* 4592
Rhizobium 4592
- L-Norvaline,**
Serratia marcescens 3232
- D-Norvalyl-D-alanine,**
Escherichia coli 7328
- Nosiheptide,**
 structure 6645
- Nourseothricin,**
Streptomyces noursei 9146 10394
- Novobiocin,**
 7591
 + amikacin 4794
 antibacterial agent 5543
 C-13 nuclear magnetic resonance spectroscopy 5754
Erwinia amylovora 8064
 isolation medium, soil *Actinomycetes* 5471
 milk, assay, *Sarcina lutea*/*Bacillus subtilis* 5206
 milk, thin-layer chromatography 1722
Pseudomonas pseudomallei 8117
 resistance, *Bacillus licheniformis* 5543
 resistance, *Staphylococcus aureus* 7302
 selective medium, *Citrobacter freundii* 6785
 selective medium, *Escherichia coli* 6785
 selective medium, *Proteus mirabilis* 6785
 selective medium, *Salmonella* 6785
Staphylococcus aureus L-form 3750
Streptococcus mutans 552
Streptomyces niveus 10222
Streptomyces niveus, dynamic calorimetry 2543
- Nuclear magnetic resonance spectroscopy,**
 daunomycin, *Streptomyces peucetius* 877
 diatretyne 2 1414
- Nuclear Overhauser effect,**
 valinomycin structure 4830
- Nuclear polyhedrosis virus,**
 alfalfa looper, *Spodoptera frugiperda* cell culture 4010
- Autographica californica, Trichoplusia ni**
 cell culture 4011
 encapsulated, insecticide 6964
Heliothis armigera, *Bacillus subtilis* culture 4994
Heliothis armigera, *Saccharomyces cerevisiae* culture 4994
 insect cell culture 4009
 insecticide 9487
- Nuclear reactor effluent,**
 lake water, *Aeromonas* 4881
- Nuclease,**
 microbial 3217
Micrococcus varians, culture medium 1665
- Nuclease(Contd),**
Serratia marcescens 8376
Serratia marcescens, *Candida tropicalis* 6906
Vibrio 1666
- endo-Nuclease,**
Thermus aquaticus 6907
- endo-nuclease I,**
Escherichia coli, cold shock method 9387
- Nuclease test,**
 thermostable, *Staphylococcus aureus*, food 5202
- Nucleic acid,**
Candida lipolytica protein, ribonuclease, food 1717
Candida tropicalis protein, ribonuclease, food 1717
 content, *Saccharomyces cerevisiae* protein, food 3380
 microbial 3217
 microorganisms 10644
 reduction, *Bacillus subtilis* protein, food 3380
 reduction, microbial protein, food 3380
Saccharomyces cerevisiae protein, autolysis 2435
- Nucleic acid-related substance,**
 microbial 3217
- Nucleocidin,**
 643
- Nucleolytic enzyme,**
 microbial 3217
- Nucleoside,**
 5-carboxyuracil, *Streptomyces cacaoi*, polyoxins/octosyl acid 3075
 fluorescent, *Mycobacterium smegmatis* 872
 fluorescent, *Mycobacterium tuberculosis* 872
 microbial 3217
- Nucleoside diphosphate,**
 phosphorylation, *Streptomyces aureofaciens*
 nucleoside diphosphokinase 3298
- Nucleoside diphosphate:polynucleotide**
 nucleotidyl transferase,
Bacillus amyloliquefaciens 7649
- Nucleoside diphosphokinase,**
Streptomyces aureofaciens 3297 3298
- Nucleoside phosphotransferase,**
Clostridium perfringens, assay, fluorometry 7641
- Nucleotide,**
 microbial 3217
- Nucleotide phosphotransferase,**
Escherichia coli, affinity chromatography 9423
- Nucleopore filter,**
 bacteria, fluorescence microscopy 9258
 Nucleopore, bacteria, fluorescence microscopy/scanning electron microscopy 9263
- Numbering system,**
 polyether antibiotics 1384
- Numerical taxonomy,**
 estuarine water/sediment bacteria, petroleum degradation 10109
- Nuphar luteum,**
 Dichotomophthoropsis nymphaeorum 4369
Sclerotium 5395
- Nut,**
 aflatoxins 7060
 Aleppo pine, aflatoxins 9709
Aspergillus parasiticus, aflatoxin 2625
 cola, fungal post-harvest decay 6320
 microbiocidal, methyl bromide 8553
 pecan, aflatoxins, fluorescence 5275
 pecan, *Alternaria*, alternariol monomethyl ether, alternariol 6956
 pecan, sterigmatocystin, *Aspergillus flavus*, *Aspergillus glaucus* 7835
 pecan, weevil-damaged, *Fenicillium lanoso-coeruleum*, penitrem A, toxin 9719
 pistachio, aflatoxins 5276 5277

Subject index

Nut(Contd),

- pistachio, *Aspergillus flavus*, aflatoxin 227
- pistachio, *Aspergillus versicolor*, Sterigmatocystin 227

Nut rot,

- Colletotrichum gloeosporioides*, betel nut palm 8679

Nutrition,

- mycotoxins 5689

Nutritive value,

- rye/wheat/triticate, assay, *Aspergillus flavus* 5855

Nuvocron,

- soil ammonification/nitrification 2895

Nyboomycin,

- carbon-13 nuclear magnetic resonance spectroscopy 10395

Nyctanthus arbortristis,

- Glomerella cingulata* 1909

Nymphaea odorata,

- Dichotomophthoropsis nymphaearum* 4369
- Sclerotium* 5395 8659

Nymphaea tuberosa,

- Dichotomophthoropsis nymphaearum* 4369

Nyphimycin A1-scopafungin,

- actinomyces hygroscopicus*, antibacterial agent/antifungal agent 644

Nystatin,

- Actinomyces noursei* 6608 8170 9107
- antifungal agent 2992
- assay 9033
- assay, *rubidium + Saccharomyces cerevisiae* 5696
- assay, *Saccharomyces cerevisiae*, flow calorimetry 5695
- assay, spectrophotometry 9105
- Candida albicans* 565
- Candida albicans phosphatase* 5645
- Ceratocystis ulmi* 4534
- Fusarium oxysporum*, lemon post-harvest decay 9916
- hydrogen peroxide, *Candida albicans/Trichophyton mentagrophytes/Aspergillus niger* 2953
- metal complexes, antifungal agent 1376
- methyl ester 10266
- methyl ester hydrochlorides, antifungal agent 5644
- oat seed treatment 10236
- photochemistry 6609
- Phytophthora parasitica*, Piper beetle 9970
- Pityosporum canis* 5566
- resistance, *Candida albicans* 4639
- resistance, *Candida krusei* 7312
- resistance, *Candida parakrusei* 7312
- resistance, *Candida scottii* 5539
- resistance, *Candida tropicalis* 7312
- Shigella + Candida albicans* 5631
- sorption, polyvinylpyrrolidone 6607
- veterinary topical product, antibacterial agent/antifungal agent 2970
- vitamins/nicotinamide/p-aminobenzoic acid 2991

Nystatin A1,

- cyclic hemiketals, carbon-13 nuclear magnetic resonance spectroscopy 6567

Oak,

- black, *Cronartium fusiforme*, Darluca filum, biological control 2049
- blackjack, *Cronartium fusiforme*, Darluca filum, biological control 2049
- Ceratocystis fagacearum* 8858
- coast live, *Phytophthora cactorum* 8860
- coast live, *Phytophthora cinnamomi* 8860
- coast live, *Phytophthora citricola* 8860

Oak(Contd),

- cork, *Armillaria mellea* 10015
 - cork, *Armillaria tabescens* 10015
 - cork, *Phytophthora cactorum* 8860
 - cork, *Phytophthora cinnamomi* 8860
 - cork, *Phytophthora citricola* 8860
 - dwarf live, *Cronartium strobilinum*, Darluca filum, *Quercus laurifolia* 2049
 - fungi 9996
 - laurel, *Cronartium fusiforme*, Darluca filum, biological control 2049
 - Microsphaera alphitoides* 2850
 - northern red, *Ceratocystis fagacearum* 2048
 - Phlebia chrysocrea* 418
 - pin, *Endothia gyrosa* 5461
 - Polyporus frondosus* 2851
 - Polyporus sulphureus* 2851
 - red, resistance, *Ceratocystis fagacearum* 8859
 - resistance, *Lenzites trabea* 420
 - running, *Cronartium strobilinum*, Darluca filum, biological control 2049
 - soil, macronutrients, litter microorganisms 7994
 - water, *Cronartium fusiforme*, Darluca filum, biological control 2049
 - white, *Cronartium fusiforme*, Darluca filum, biological control 2049
 - willow, *Cronartium fusiforme*, Darluca filum, biological control 2049
 - wood degradation, forest soil 6401
 - wood, *Serpula lacrimans* 7243
- Oakite 55M,**
- fresh-water water microorganisms 10481
- Oat,**
- Chloris striate mosaic disease*, Rhodes grass 7128
 - Drechslera avenacea*, saponins 277
 - Drechslera sorokiniana*, biological control 1099 7202
 - Drechslera sorokiniana*, seed treatment fungicide 1120
 - Erysiphe graminis avenae* 6334
 - fungal diseases 2685
 - Fusarium culmorum*, biological control 1099 7202
 - Fusarium culmorum*, seed treatment fungicide 1120
 - Fusarium moniliforme*, gibberellin 278
 - Gaeumannomyces graminis avenae*, biological control, *Phialophora radicola* 370
 - grains, sterigmatocystin, chromatography thin-layer 7834
 - Helminthosporium victoriae* victorin 7126 9793
 - Puccinia*, BAS 3170 F 1109
 - Puccinia coronata avenae* 4337 4338 9773
 - Puccinia coronata avenae*, antifungal agent, plant leaf extracts 1028
 - Puccinia coronata*, triazinedione derivatives 1119
 - Puccinia graminis avenae* 1876 3482 4339
 - Puccinia hordei*, triazinedione derivatives 1119
 - resistance, *Erysiphe graminis avenae* 6334 7949 8770
 - resistance, fungal diseases 2685
 - resistance, *Puccinia coronata* 4449 7199 993
 - resistance, *Ustilago kollerii* 9794
 - Rhizoctonia solani*, biological control 1099 7202
 - Rhizoctonia solani*, seed treatment fungicide 1120
 - seed treatment, antibiotics 10236
 - soil, *Cochliobolus sativus* 2868
 - Ustilago avenae* 1877 4315 4320
 - Ustilago hordei* 4320
 - Ustilago kollerii* 9794
 - virus disease 1869
- Oat blue dwarf virus,**
- barley 8625

Subject index

- Oat porridge,**
Staphylococcus, food poisoning 1757
- Obesumbacterium proteus,**
brewery, hygiene 8444
- Ochracine,**
Septoria nodorum, wheat 3491
- Ochratoxin,**
animal mycotoxins 3427
chicken 234
food 7055
Japanese quail 234
turkey 234
- Ochratoxin A,**
9688
+ ochratoxin B, ochratoxin B assay,
carboxypeptidase A 8569
animal feed 8554
animal microflora 2632
Aspergillus ochraceus 235
Aspergillus ochraceus, pistachio nut 5276
cereal, animal feed 4255
cereal, thin-layer chromatography 3430
food 8467
grain 7056
human cell culture, cytocide 5260
minicolumn chromatography 2621
Penicillium viridicatum, stored rice 9690
rumen microorganisms 4254
tritium-labelled 3435
- Ochratoxin B,**
animal feed 8554
assay, carboxypeptidase A, ochratoxin B +
ochratoxin A 8569
cereal, animal feed 4255
cereal, thin-layer chromatography 3430
tritium-labelled 3435
- Ochratoxin C,**
tritium-labelled 3435
- Ochre,**
soil microorganisms 10084
- Ocimum sanctum,**
Alternaria alternata 2751
- Octadecane,**
Candida lipolytica, acetyl-CoA carboxylase
4061
- Octadecenoic acid,**
Streptococcus mutans, gas chromatography
5889
- 1,7-Octadiene,**
epoxidation, Pseudomonas oleovorans,
7,8-epoxy-1-octene, 1,2,7,8-diepoxyoctane
9482
- Octahydroindole,**
phosphorylthio-acetyl derivatives, fungicide,
plant protection 4513
- Octahydropyridine,**
phosphorylthio-acetyl derivatives, fungicide,
plant protection 4513
- Octane,**
degradation, Pseudomonas aeruginosa 1187
degradation, Pseudomonas putida 1187
- Octapeptin A1,**
7441
- Octapeptin A2,**
7441
- Octapeptin A3,**
7441
- Octapeptin B1,**
7441
- Octapeptin B2,**
7441
- Octapeptin B3,**
7441
- Octapeptin C1,**
7441
structure 9147
- 1-Octen-3-ol,**
mushroom Aroma compound 7029
- 1-Octen-3-one,**
mushroom Aroma compound 7029
- Octopine,**
Agrobacterium radiobacter, crown gall 3456
- Octosyl acid,**
Streptomyces cacaoi, 5-carboxyuracil
nucleoside 3075
- N-Octyl bicycloheptene dicarboximide,**
Fusarium graminearum, zearalenone 2636
- Odontia bicolor,**
conifers 5446
- Odontomyces viscosus,**
antibiotic A-4696 624
- Oerskovia,**
beta-1,3-glucanase, yeast 3275
beta-1,3-glucanase, yeast cell wall lytic
enzyme 9392
lytic enzyme, yeast 3275
- Oetskovia turbata,**
menaquinone 3342
- Ohia,**
Phytophthora cinnamomi 8361
- Oidiopsis,**
chilli 1919
China aster 5299
Jerusalem cherry 5299
stock 5299
Umbelliferae 7906
wire-plant 5299
- Oidium,**
benzimidazole resistance, plant protection
7204
Campanula rapunculoides 304
carrot 7906
Macroptilium bracteatum 5305
Macroptilium lathyroides 5305
Monarda didyma 304
Nicandra physaloides 6275
plant disease 2656
plantain 252
poplar 5299
stock 5299
Umbelliferae 7906
- Oidium begoniae,**
Begonia rex 304
- Oidium chrysanthemi,**
Chrysanthemum 304
- Oidium kalanchoeae,**
Kalanchoe blossfeldiana 304
- Oidium lactis,**
protein, pasta product 3404
- Oidium lini,**
flax, resistance 1987
- Oidium manihotis,**
cassava 7909
- Oidium tuckeri,**
grapevine 3512
- Oil,**
see also Petroleum
-water emulsion, bactericide/fungicide,
benzisothiazolinone + quaternary ammonium
compound 4687
adjuvant, benomyl, plant protection 2791
antibiotics 6543
bacterial degradation, mercury 4623
bactericide/fungicide 7288
bactericide/fungicide, quaternary ammonium
methylene phosphonates 3731
chain saw, Ceratocystis ulmi, elm 10014
crude, degradation, arctic tundra soil
microorganisms 10107
crude, degradation, estuarine microorganisms
478
crude, degradation, sea water bacteria 4620
4621
crude, degradation, soil microorganisms 8045

Subject index

Oil(Contd),

crude, microbial degradation 1184
 crude, microbial degradation, biocides 10110
 crude, microbial degradation, sea water 4622
 crude, microbial protein, animal feed 1766
 crude, yeast protein, food/feed 133
Curcuma caesia, antifungal agent 5567
 cutting, antibacterial agent/antifungal agent, paraldol 3721
 cutting, bacteria, dipslide 5832
 cutting, microorganisms filtration 7287
 degradation, estuarine sediment bacteria 7289
 degradation, sea water bacteria 4886
 degradation, sea water microorganisms 6462
 degradation, soil microorganisms 10108
 fuel, degradation, estuarine microorganisms 478
 fuel, degradation, soil microorganisms 10108
 fungicide, quaternary ammonium compound 2961
 gas, *Aeromonas*, biomass 7291
 gas, *Azotomonas*, biomass 7291
 gas, *Brevibacterium*, biomass 7291
 gas, *Mycococcus*, biomass 7291
 gas, *Protaminobacter*, biomass 7291
 hop, antibacterial agent/antifungal agent, beer 5168
 lubricating, antibacterial agent, 2-bromo-2-hydroxyimino-acetophenone derivatives 8066
 lubrication, bactericide/fungicide 7288
 microbial degradation, beach gravel 8046
 microbial oxidation 482
Mycobacterium, wax 4148
 olive, *Gibberella fujikuroi*, gibberellic acid 5106
 plant, antibacterial agent 5548
 plant, antifungal agent, plant protection 386
 recovery system, antibacterial agent, phosphoramidate 3125
 sea water, microbial degradation 1185
 secondary recovery, microorganisms 5514
Serratia marinorubra, sea water 8047
 soil fungi 5517
 soil microorganisms 5516
 spice, *Vibrio parahaemolyticus* 1763
Tricholome portentosum, fatty acids 6827
 vegetable, culture medium, *Pleurotus sapidus* 2394

Oil dressing,

emulsified, preservation 971

Oil emulsion,

aqueous, fungistat/bacteriostat, benzisothiazole-3-one derivatives 534
 potato virus Y, potato 9953

Oil industry,

edible, wastewater treatment 6702

Oil palm,

Ceratocystis paradoxa, cellulase 5930
Cercospora elaeidis, fungicide 8803 9968
Fusarium oxysporum 7925
Fusarium oxysporum, potassium chloride 387
 kernels, fungi 4220

Oil shale,

leaching, *Thiobacillus concretivorus* 2900
 leaching, *Thiobacillus thiooxidans* 2900
Thiobacillus, fuel 10085

Oil well,

bactericide, methylene bithiocyanate 1495
 xanthan gum 3332

Oil well drilling fluid,

Azotobacter indicus heteropolysaccharide 9446

Oil cake,

rhizosphere fungi, eggplant 2063

Oil seed,

protein, microorganisms, food 4191

Ointment,

antibiotic, sterility testing 1294
 microorganisms 5615
 quality control 5615
 sterilisation, peracetic acid 2979

Okra,

Cercospora hibisci 1069
Choanephora cucurbitarum, culture, light 3199
Clitoria yellow vein virus 181
Erysiphe cichoracearum 322 1069
Fusarium moniliforme 6277
Fusarium oxysporum 6277
Fusarium oxysporum, soil treatment 9969
Fusarium roseum, soil treatment 9969
Fusarium semitectum 6277
Fusarium solani 6277
Fusarium solani, soil treatment 9969
 okra leaf curl virus 4398
 okra mosaic virus 4398
Pythium, soil treatment 9969
 resistance, okra yellow vein mosaic virus 4469
Rhizoctonia bataticola, pectin methylsterase/endopolygalacturonase/exopolygalacturonase/polygalacturonate trans-eliminase/cellulase 1070
Rhizoctonia solani 1069
Rhizoctonia solani, seed treatment fungicide 9993
 seed, *Aspergillus flavus* 1818

Okra leaf curl virus,

okra 4398

Okra mosaic virus,

9750

okra 4398

Okra yellow vein mosaic virus,

okra, resistance 4469

Olea europaea,

fungi 9996
Omphalotus olearius 9996
 resistance, *Verticillium dahliae* 9876
Spiloea oleagina 9875
Verticillium dahliae 9876

Oleandomycin,

Actinomyces antibioticus 1375 3047
 anhydro-, oleandomycin 2230
 anhydrooleandomycin/glycol 2:30
 assay 9033
 bile system microflora 2995
Escherichia coli 1304
Francisella tularensis 1305
Micrococcus luteus, antibiotic sensitivity testing 8112
 milk, thin-layer chromatography 1722
Proteus 1304
Pseudomonas aeruginosa 1304
 resistance, *Staphylococcus hyicus* 9045
Staphylococcus 1304
Staphylococcus aureus 3002
Staphylococcus hyicus 3002 9045
 vitamins/nicotinamide/p-aminobenzoic acid 2991

3-O-Oleandrosyl-5-O-desosaminylerythronolide A oxime,

Streptomyces antibioticus, antibacterial agent 5690

Olefin,

+ ozone, phage phiX174, air 8204 8205

Oleic acid,

Bacteroides fragilis endotoxin 7848
Candida lipolytica, acetyl-CoA carboxylase 4061
Epicoccum nigrum 1626

Tricholome portentosum oil 6827

Oleomorphocycline,

Staphylococcus 1309 3001

Oletetrine,

bile system microflora 2995
Escherichia coli 1304

Subject index

Oletetrine(Contd),

- Proteus 1304
- Pseudomonas aeruginosa 1304
- Staphylococcus 1304
- Oligoglycosyl fructose,**
- Bacillus stearothermophilus cyclodextrin glycosyltransferase 4081

Oligogynophoria,

- peanut, virus 1851

Oligomycin,

- resistance, fungi 5001

Oligosaccharide,

- Bacillus, guar gum degradation 5191
- manno- Mycobacterium smegmatis 4119
- Salmonella typhimurium, immunogen 7671

Olive,

- fermentation 1706
- fermentation, Lactobacillus plantarum 941
- fungi 9996
- green, fermentation 3362 4165
- Omphalotus olearius 9996
- products/by-products, Gibberella fujikuroi, gibberellic acid 5106
- resistance, Verticillium dahliae 9876
- Russian, Botryodiplodia theobromae 2045
- Russian, Phomopsis elaeagni 4539
- Spiloea oleagina 9875
- Verticillium dahliae 9876

Olipidium,

- plant disease 2658

Olipidium brassicae,

- carrot, Pythium root dieback 8685
- kohlrabi 6255
- soil, wheat, wheat spindle streak mosaic virus 8650
- tobacco necrosis virus, tulip 4429

Omnamycin,

- Fusarium solani 10247

Omphalotus olearius,

- olive 9996

Onion,

- Alternaria cepulicola 2752
- Alternaria cepulicola, fungicide 4492
- Botrytis allii, fungicide 6360
- Botrytis allii post-harvest decay 4439
- Botrytis cinerea 6278
- Botrytis cinerea, fungicide 6360
- Botrytis cinerea, phyllosphere bacteria 5382
- Botrytis squamosa 6278 6279 7157
- Botrytis squamosa, fungicide 6360
- Botrytis squamosa, phyllosphere bacteria 5382
- bulbs, post-harvest decay 2770
- carlavirus 6248
- Fusarium oxysporum 6280
- Fusarium solani post-harvest decay 8755
- gamma-irradiation, aflatoxin 3432
- meristem, bleomycin 5123
- Peronospora destructor 4291 9877
- Peronospora destructor, N-tetrachloroethyl-thio-4-cyclohexene-1,2-di-carboximide 8709
- post-harvest decay, Pseudomonas aeruginosa 350
- potyvirus 6248
- rhizosphere fungi, benomyl 7975
- rhizosphere fungi, captan 7975
- Sclerotium cepivorum 4399
- Sclerotium cepivorum, fungicide 7974
- Sclerotium cepivorum, fungicide seed treatment 7991
- seed, Aspergillus flavus 1838
- vesicular-arbuscular mycorrhiza, benomyl 7975
- vesicular-arbuscular mycorrhiza, captan 7975

Onobrychis ferganica,

- Leveillula 4297

Onobrychis viciifolia,

- + Rhizobium, nitrogen fixation 8910
- Fusarium solani 4308

Onobrychis viciifolia(Contd),

- resistance, Fusarium solani 7200

Ontjom,

- Neurospora sitophila, protease 8390
- peanut fermentation, Neurospora sitophila/Rhizopus oligosporus 3407
- peanut press cake fermentation, Neurospora sitophila/Rhizopus oligosporus 3408

Oomycetes,

- river water 3134

Oospolactone,

- Gloeophyllum sepiarium, antifungal agent 2538

Oospora casei,

- sheep cheese 6066

Oospora lactis,

- lipase 9414

Oospora lactis trieda,

- sheep cheese 6066

Oospora pustulans,

- potato post-harvest decay 6325

Oospore,

- Pythium aphanidermatum 8297
- Pythium myriotylum 8297

Open air factor,

- bactericide 8206

Operating room,

- bacteria, surgical clothing 732

Operating theatre,

- air-borne bacteria 731
- air disinfection 1509
- air hygiene 1511 10491
- air screening device 1510
- air sterilisation 3733
- bacteria 1512
- contamination control mats 10492
- haemostat, bacteria 4249
- hygiene 3141 7519
- Operculella padwickii,**
- fungicide 1100
- gram 264 7112
- thiabendazole, plant protection 2818

Ophiobolus A,

- Cochliobolus setariae 6625
- Helminthosporium maydis, corn 9716

Ophiobolus,

- wheat, straw fertilization/straw burning 1887

Ophiobolus graminis,

- see also Gaeumannomyces graminis
- soil, fungistasis 6420
- wheat 4315
- wheat, soil straw 5334

Ophiorrhiza mungos,

- extract, camptothecin, 10-methoxycamptothecin, antiviral agent 8995

Ophiostoma ulmi,

- elm, polygalacturonase/cellulase 3619

Ophthalmic medicament,

- plastic package 5612

Ophthalmic ointment,

- antibiotic, sterility testing 1294

Opomoea batatas,

- abaca mosaic virus 5293
- resistance, Fusarium oxysporum 8777

Opossum,

- Mycobacterium avium complex-serotype 6, blood agar medium 3980

Optical density,

- bacteria 6760
- microbial culture 2360
- microbiological analysis 1559
- Staphylococcus aureus, polyethoxyalkyl phenols 10155

Optical device,

- fungi 4851

Optical rotation dispersion,

- isolevorin 9140
- levorin 9140

Subject index

Optimization,

mathematical, microbiology 4915

Oral hygiene,

see also Hygiene 10645

alexidine dihydrofluoride, dental

plaque/dental calculus/dental

caries/gingivitis 1533

anti-dental plaque/anti-dental caries agent 746

benzethonium polymer 1536

bis-biguanide, dental plaque/dental

caries/dental calculus 9244

bis-biguanido hexane compound, dental plaque 8261

cetylpyridinium chloride mouthwash, dental plaque 1537

chlorhexidine, dental plaque 1538

chlorhexidine toothpaste, antibacterial agent 5815

dental floss 1531

dental plaque/dental caries 747

dentifrice, *Bacillus acidophilus* 2354

dentifrice, *Bacillus polymyxa* polysaccharide 2510

dentifrice, dental caries, fluoride +

monofluorophosphate 3931

dentifrice, dental caries,

monofluorophosphate 3930

dentifrice, fungal dextranase 10502

fluoride, dental caries 1532

fluoride dentifrice, gingivitis 4903

fluoride mouthwash, dental caries 7529

fluorine/phosphate/calcium-containing

ion-exchange resins, dental caries 8262

iodine-containing compounds, dental plaque,

antibacterial agent 10504

microbial dextranase/cariogenase, dental plaque 4C5E

monofluorophosphate composition, dental

caries/dental calculus 1534

Penicillium dextranase, dental plaque 4902

quaternary ammonium compounds 1535

quaternary ammonium compounds, dental

caries/dental calculus 2145 2146

toothbrush steriliser 1281

toothpaste, dental caries 10503

Oral surgery,

surgeon's glove 3919

Oranges,

Botryodiplodia theobromae post-harvest decay 3542

cannery waste, yeast 911

citrus mosaic virus, *Hibiscus rosasinensis* 1934

Citrus, *Penicillium digitatum*, fungicide 4441

Citrus, *Penicillium italicum*, fungicide 4441

Diaporthes citri, thioureidobenzene phosphates 2014

Diplodia natalensis post-harvest decay, fungicide 6318

Elsinoe fawcetti, thioureidobenzene

phosphates 2014

Geotrichum candidum post-harvest decay 4578

juice, frozen concentrated, microorganisms,

radiometry 9608

little-leaf disease, *Spiroplasma citri* 7141

mandarin, *Colletotrichum gloeosporioides* 2724

mandarin, *Geotrichum candidum* post-harvest decay 4440

mandarin, Mosambi leaf crumpling virus 6243

mandarin, *Phytophthora nicotianae* 2724

Penicillium digitatum post-harvest decay, fungicide 6318

Phomopsis citri post-harvest decay, fungicide 6318

post-harvest decay, *Geotrichum candidum*, fungicide 2721

Orange (Contd),

post-harvest decay, *Geotrichum candidum*,

sodium o-phenylphenate 1972

Sclerotinia sclerotiorum post-harvest decay,

fungicide 6318

sour, *Phoma tracheiphila* 9834

sour, *Phoma tracheiphila*, electron microscopy 9836

sour, *Phoma tracheiphila*,

DL-p-fluorophenylalanine 9975

sour, virus diseases 8662

sweet, citrus crinkly leaf virus 9830

sweet, citrus greening, mycoplasma-like organism 5354

sweet, citrus greening, mycoplasma-like organism, plant protection 5355

sweet, *Geotrichum candidum* post-harvest

decay, polygalacturonase, cellulase 9919

sweet, Mosambi leaf crumpling virus 6243

sweet, mycoplasma diseases 8662

sweet, *Phytophthora parasitica*, degradation, soil microorganisms, *Phytophthora parasitica* 1C078

sweet, *Spiroplasma citri*, leafhopper 9831

sweet, tangelo 8662

sweet, virus diseases 8662

sweet, yellow corky vein virus 1046

Orange drink,

carbonated, yeasts 6093

Orange juice,

assay, *Lactobacillus plantarum* 5238

Lactobacillus brevis 6C91

microflora, heat resistance 222

plate loop count 194

protein hydrolysate, bacterial protease 5971

Orange leaf virus,

rice 6221

Orange Pincushion,

Phoma sorghina/*Phoma glomerata* 1935

Orchard grass,

Erysiphe graminis 7875

fungal diseases 8641

Helminthosporium 8641

Helminthosporium siccan 7875

Mastigosporium rubricosum 86417 7875

Rhynchosporium orthosporum 8641 7875

waste, soil, microorganisms 10040

Orchid,

Botrytis, *Botrytis cinerea* 9878

Cymbidium mosaic virus 6281

Cymbidium ringspot virus 6163

Laelia red leafspot virus 7158

mycorrhiza 4572 4573

Organ culture,

microrespirometer chamber 1602

Organelle,

Aspergillus niger giant cells 5017

Organic acid,

fuel tank microorganisms 4617

Organic flocculation,

viruses, drinking water 3130

Organic soil neutralization test,

disinfectant, *Pseudomonas*

aeruginosa/*Staphylococcus aureus* 5801

Organic solvent,

Streptomyces preservation 5609

Organolead compound,

bactericide/fungicide 2129

Organomercurial preservative,

bactericide 4653

Organophosphate insecticide,

microbial hydrolysis 113

Organophosphorus compound,

antimicrobial agent 2906

fungicide 2951

Phytophthora infestans, potato 2008

Subject index

- ganotin compound,
 bactericide/fungicide 1260 2129
 fungicide, plant protection 6363
 seed treatment, fungi, bean 1859
 seed treatment, fungi, soybean 1859
 gantation,
 bacteria, electron microscopy 4927
 giganum,
 fungicide 3569
 methoprim,
 antibacterial agent 10149
 methoprim-sulphadimethoxine,
 antibacterial agent 10149
 methoprim-sulphaquinoxaline,
 antibacterial agent 10149
 midazole,
 anaerobic bacteria 7323
 rnithine,
 degradation, Enterobacteriaceae, Nessler's
 reagent 4936
 Ornithine,
 2-methyl-, Streptomyces 1425
 rnithine-containing lipid,
 Gluconobacter cerinus 3348
 rnithine decarboxylase,
 Erwinia 12
 rnithine transcarbamylase,
 Salmonella typhimurium 5080
 rnithogalum virens,
 Sclerotium rolfsii 1071
 rsellin BB,
 + crystal violet, stain, fungi 4979
 rthocide,
 fungicide, insect feed 6117
 Lophodermium pinastri, pine 1151
 rthocide 75,
 see Captan
 rthophaltan,
 fungicide, insect feed 6117
 rryza sativa,
 + Spirillum, nitrogen fixation 5501
 Acrocyllindrium oryzae 7886 8644
 Azotobacter chroococcum 7270
 benomyl 400
 Cercospora oryzae 6224
 Cercospora oryzae, fungicide 4486
 Claviceps oryzae-sativae 7887
 Cochliobolus miyabeanus,
 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine
 derivatives 3589
 Corticium sasakii 280 7888
 Corticium sasakii, sclerotia, soil 3640
 Etyloma oryzae, fungicide 4486
 flour, yeast-leavened bread 3402
 Gibberella fujikuroi 9798
 Gigaspora gigantea 4571
 Helminthosporium oryzae 281 282 1032 1033
 1034 8645
 Helminthosporium oryzae, antifungal agent
 283 4498
 Helminthosporium oryzae, fungicide 4486 7972
 Helminthosporium sigmoideum 7131
 Helminthosporium, tri-2-norbornyltin
 derivatives 6363
 Magnaporthe salvinii 5331
 microbial diseases, plant protection 1029
 Mycoplasma 5315
 Neovossia horrida, fungicide 9961
 Nigrospora oryzae toxin 976
 nitrogen fixation, acetylene reduction assay
 8896
 orange leaf virus 6221
 Pellicularia sasakii, BAS 3050 F 1109
 Pellicularia sasakii,
 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine
 derivatives 3589
 Pellicularia sasakii, thioureidobenzene
 phosphates 2014
 Pyrenochaeta growth inhibitor 7130
 Pyricularia oryzae 1035 1881 2704 2705 2706
- Oryza sativa(Contd),
 Pyricularia oryzae 4341 4342 4343 8646 9799
 Pyricularia oryzae, 2-aminopyrimidine
 derivatives 395
 Pyricularia oryzae, amipurimycin 9124 9125
 Pyricularia oryzae, benomyl 7215
 Pyricularia oryzae, blasticidin S tolerance
 7218
 Pyricularia oryzae,
 2,2-dichloro-3,3-dimethylcyclopropane
 carboxylic acid, phytoalexin 8785
 Pyricularia oryzae, diphenylalmine
 derivatives 392
 Pyricularia oryzae, diphenylpyrazolium
 derivatives 1114
 Pyricularia oryzae, fungicide 4486 4487 5419
 Pyricularia oryzae, kasugamycin/blasticidin S
 resistance 8966
 Pyricularia oryzae, pyrazolium derivatives
 2812 3581 4511
 Pyricularia oryzae,
 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine
 derivatives 3589
 Pyricularia oryzae, thiophosphoric acid ester
 amide derivatives 1117
 Pyricularia oryzae, thioureidobenzene
 phosphates 2014
 resistance, Pyricularia oryzae 2785 4341
 4342
 resistance, rice yellow dwarf virus 9931
 resistance, Ustilaginoidea virens 2703
 resistance, Xanthomonas oryzae 2703 6335
 9932
 Rhizoctonia oryzae, benlate 4486
 rhizosphere, Beggiatoa 5475
 rhizosphere, Beijerinckia,
 immunofluorescence, nitrogen fixation 5486
 rhizosphere, denitrification 3643
 rhizosphere, metabolic gases 10042
 rhizosphere, microflora, nitrogen 6407
 rhizosphere microorganisms, pesticides 8916
 rhizosphere, nitrogen fixation 3645
 rhizosphere, vesicular-arbuscular mycorrhiza
 7257
 Rhynchosporium oryzae 8647
 rice 4340
 rice dwarf disease virus, leafhopper, cartap
 7962
 rice dwarf virus, polyethylene glycol 5870
 rice necrosis mosaic virus 2701
 rice orange leaf disease, mycoplasma-like
 organism 5330
 rice tungro virus 1878 1879 2702
 Sclerophthora macrospora 3484
 Sclerotium oryzae, dextranase 1835
 Sclerotium oryzae, fungicide 284
 seed, Aspergillus flavus 1838
 seed, Drechslera oryzae 6223
 seed, mycoflora 1880
 seed, Pyricularia oryzae 6223
 seed, Trichoconis padwickii 6223
 seed, Xanthomonas oryzae 6222
 soil, fungi 8879
 soil, nitrogen fixation 2876
 soil, sulphate-reducing bacteria 4563
 stored, sterigmatocystin 238
 Thanatephorus cucumeris 8646
 virus disease 1869
 Xanthomonas oryzae 279 1031 6165 7129 9796
 Xanthomonas oryzae, biological control 7220
 Xanthomonas oryzae, Leptocorisa acuta 1030
 Xanthomonas oryzae, rice sativa,
 Ustilaginoidea virens 2703
 Xanthomonas oryzae, resistance 1984
 Xanthomonas oryzae, triazinedione derivatives
 1119
 Xanthomonas oryzae 9797
 yield decline, Pseudomonas putida, soil
 microorganisms 7885

Subject index

- Osmotic water potential,**
 - Endothia gyrosa* 5461
 - Endothia parasitica* 5461
 - Endothia singularis* 5461
 - Endothia tropicalis* 5461
 - Fusarium solani* 5461
- Osteospermum ecklonis,**
 - Phytophthora cryptogea* 3510
- Osteospermum fruticosum,**
 - Phytophthora cryptogea* 3510
- Ostreogrycin A,**
 - mass spectrometry 5259
- Oudemansiella mucida,**
 - mucidin 4813
- Oven cooking,**
 - pork, bacteria 6080
- Ovitrol,**
 - hydrogen peroxide, *Candida albicans*/*Trichophyton mentagrophytes*/*Aspergillus niger* 2953
- Ovulinia azaleae,**
 - azalea, Bay Meb 6447 8819
 - azalea, fungicide 8800
- Oxacillin,**
 - + amikacin 4794
 - + gentamicin/tobramycin, *Streptococcus* group D 5642
 - + netilmicin, *Staphylococcus aureus* 10302
 - + sisomicin, *Staphylococcus aureus* 10302
 - Aeromonas hydrophila* penicillinase 36
 - antibacterial agent 10241
 - antibiotic sensitivity testing, blood culture 551
 - bile system microflora 2995
 - Clostridium perfringens* 7371
 - Escherichia coli* 1304
 - hydroxypropyl methylcellulose artificial tear solution 4712
 - melanin 1303
 - milk, penicillinase 4192
 - milk, thin-layer chromatography 1722
 - Propionibacterium acnes* 5630
 - Proteus* 1304
 - Pseudomonas aeruginosa* 1304
 - quality control, membrane filtration 10287
 - resistance, *Pseudomonas aeruginosa*, beta-lactamase 2102
 - resistance, *Staphylococcus aureus* 5534
 - Staphylococcus* 1304 1309 3001
 - Staphylococcus, anaerobiosis* 9044
 - Staphylococcus aureus* 2169 2187 2223 10302
 - Streptococcus* group D 5634
 - Streptococcus viridans* 5634
- Oxadiazole,**
 - derivatives, fungicide 10171
 - derivatives, fungicide, *Aspergillus flavus*/*Aspergillus niger* 1237
- Oxadiazole-2-thione,**
 - halogenated derivatives, antifungal agent 5577
- Oxadiazolidine-3,5-dione,**
 - derivatives, fungicide, plant protection 1115
- Oxadiazon,**
 - Sclerotium rolfsii*, peanut 9957
- Oxalic acid,**
 - Aspergillus niger*, animal feed 8521
 - Cladosporium resinae*, alkane 5520
- Oxaline,**
 - Penicillium oxalicum*, C13 nuclear magnetic resonance spectroscopy 5127
- Oxalis,**
 - Fusarium oxysporum* 6280
 - Puccinia oxalidis* 4368
- Oxalis articulata,**
 - Puccinia oxalidis* 4368
- Oxalis bowiei,**
 - Puccinia oxalidis* 4368
- Oxalis caprina,**
 - Puccinia oxalidis* 4368
- Oxalis corymbosa,**
 - Puccinia oxalidis* 4368
- Oxalis latifolia,**
 - Puccinia oxalidis* 4368
- 4-Oxalocrotonate decarboxylase,**
 - bacterial, pyrazon degradation 5197
- Oxamicetin,**
 - Arthrobacter oxamicetus*, antibacterial agent 3073
- Oxamyl,**
 - Trichodorus*, tobacco rattle virus, potato 7928
- Oxathiin,**
 - derivatives, snow mould fungi, turfgrass 4485
 - resistance, phytopathogenic fungi 376
- Oxazepine,**
 - 8-chloro-10,11-dihydrodibenz(b,f)(1,4)-, transformation, fungi 4137
- Oxazine,**
 - derivatives, antibacterial agent/antifungal agent 1267
- Oxazolidine,**
 - bicyclic polyoxymethylene-fungicide/bactericide 471
 - derivatives, antibacterial agent 5553
 - derivatives, antibacterial agent/antifungal agent 1267
 - derivatives, fungicide 3703
 - derivatives, fungicide, plant protection 3703
 - polyoxymethylene-, bactericide/fungicide 2090
- Oxazolidinone,**
 - 3-chloro-, bactericide 7322
 - 3-(1-methyl-5-nitro-2-imidazolyl-methylideneamino)-2-, *Pasteurella*/*Yersinia* 2114
- Oxethane,**
 - wastewater, microbial degradation 6708
- Oxi Fern tube,**
 - bacteria 10543
- Oxidase,**
 - Cephalosporium sacchari*, sugarcane 4347
- Oxidation,**
 - alditol, *Acetobacter suboxydans*, L-dendroketose 8403
 - alditol, immobilised *Acetobacter suboxydans* 5883
 - aldose diethyl dithioacetal, immobilised *Acetobacter suboxydans* 5883
 - alkane, *Candida tropicalis*, catalase 8941
 - alkane, *Pseudomonas aeruginosa*, protein-like activator 10099
 - amines, yeasts 4168
 - arsenite, *Alcaligenes faecalis*, sewage 2300
 - arsenite, *Alcaligenes*, soil 2860
 - iron, *Bacillus megaterium* 4613
 - iron, *Escherichia coli* 4613
 - iron, *Salmonella typhimurium* 4613
 - iron, *Serratia marcescens* 4613
 - iron, *Thiobacillus* 5512
 - iron, *Thiobacillus ferrooxidans*, batch/continuous culture 8931
 - iron, *Thiobacillus ferrooxidans*, uranium leaching 8039
 - manganese, manganese concretion, soil bacteria 8932
 - methane, *Methanomonas margaritae* 2093
 - methane, *Methylococcus capsulatus* 473
 - methane, *Methylomonas methanica*, coal 8929
 - methane, *Methylomonas rubrum* 2915
 - microbial, oil 482
 - naphthalene, *Pseudomonas fluorescens*, gentisic acid 2916
 - paraffin, *Torulopsis bombicola*, macrocyclic ketone 2920
 - photosensitized, tetracyclines 7418
 - propylene, microorganisms 4619
 - squalene, *Arthrobacter* 6984
 - stibnite, *Thiobacillus ferrooxidans* 8933

Subject index

idation(Contd),

sulphur, 7-methylthioxanthone-2-carboxylic acid, *Calonectria decora*/*Aspergillus niger*/*Streptomyces armentosus* 9483
 sulphur, *Thiobacillus* 5512
 sulphur, *Thiobacillus thiooxidans*, pyruvate 5513
 terpenes, *Arthrobacter* 6984
 tetradecane, *Candida*, citric acid 10103
 tetrathionate, *Thiobacillus denitrificans*, ion-sensitive electrode 6457
 thiosulphate, *Thiobacillus delicatus* 2089
 thiosulphate, *Thiobacillus ferrooxidans* 2089
 xylene, *Pseudomonas aeruginosa* 5519
 ta-Oxidation,
 prostaglandin, microorganisms 9442
 idation ditch,
 tannery effluent treatment 10449
 waste treatment 10442
 idation ditch mixed liquor,
 swine feed 3872
 idation-fermentation test,
 yeasts 1592
 idation pond,
 waste treatment 2293 2296 9177
 wastewater treatment 3869
 idative phosphorylation,
 bacteria 5833
 ime-carbamate,
 derivatives, fungicide/microbiostat 9003
 ime ester,
 antibacterial agent/antifungal agent 2148
 Oxo-1,3-diazabicyclo[3.2.0]heptane-2-carboxylic acid,
 antibacterial agent 8121
 Oxo-4-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 antibacterial agent 8122
 Oxo-pregna-4,17(20)-dien-20-carboxylic acid,
Mycobacterium 9441
 olinic acid,
 antibacterial agent 528 2969 5563
Shigella flexneri 4662
Shigella sonnei 4662
 Oxosteroid isomerase,
Pseudomonas testosteroni 34
 ycarboxin,
 bean seed fungi 6355
Fusarium oxysporum, wheat 2801
Hemileia vastatrix, coffee 5422
Physoderma maydis, corn 8794
Puccinia hordei, barley 2003
Verticillium dahliae, brinjal 4489
 ycarboxin 20EC,
Hemileia vastatrix, coffee 9977
 ycholine,
 resistance, *Shigella* 5524
 ygen,
 3216
 diffusion coefficient, microbial aggregate 9248
 dissolved, *Bacillus cereus* enterotoxin 4274
 dissolved, beer 7694
 dissolved, culture medium, *Pseudomonas* 3190
 dissolved, polluted water 2333
 dissolved, *Staphylococcus aureus* enterotoxin 4274
 fermentation 5162
 humidified, bacteria; filter 3950
 hydrogen peroxide, microbial culture 7531
Methylomonas methanica culture 5518
 microorganisms 5162 8300
 respirometer, bacterial respiration 6712 6713
 rhizosphere, nitrogen fixation, *Rhizobium* + soybean 7276
 waste treatment 7468 7469
 ygen electrode,
 fast-response, fermenter aeration capacity 7693

Oxygen electrode(Contd),

fermenter 5161
 Oxygen probe,
 9247
 Oxygen tension,
 soil bacteria 7254
 Oxygen transfer,
 activated sludge 3844
 Oxygen transfer coefficient,
 10526
Candida rugosa, hydrocarbon 6469
 microbial culture 6750
 Oxygen transfer power,
 economy, fermenter 9498
 Oxygen transfer rate,
 multistage tower fermenter 9499
 Oxygenase,
 microbial 795
 Oxyglucocycline,
Clostridium histolyticum 9039
 n-Oxypyridyl thiol,
 aluminium derivatives, antibacterial agent/antifungal agent 749
 Oxyquinoline,
 derivatives, antibacterial agent/antifungal agent/antiviral agent 2141
 Oxytetracin,
Enterobacter aerogenes 1214
Escherichia coli 1214
Klebsiella pneumoniae 1214
Proteus mirabilis 1214
Pseudomonas aeruginosa 1214
Staphylococcus aureus 1214
Streptococcus faecalis 1214
 Oxytetracycline,
 see also Terramycin
Actinomyces rimosus 1381 4739 8131 9111 10263
Agrobacterium tumefaciens, *Chrysanthemum morifolium* 1920
 assay 9033
Bacteroides fragilis 2166
Brucella 7420
 coconut fruit, lethal yellowing disease 403
 curd rot, cauliflower 402
Escherichia coli 1362 3054
Escherichia coli, antibacterial agent 2233
 fish feed 7038
 fluorimetry 4783
 formulations, tensile strength 7422
 milk, assay, *Sarcina lutea*/*Bacillus subtilis* 5206
 milk, thin-layer chromatography 1722
Mycoplasma, coconut palm 4381
 mycoplasma-like organism, palm lethal yellowing 8675
 mycoplasma-like organism, witches' broom, dogwood 1928
 mycoplasma-like organism, X-disease, peach 6375
 mycoplasma, witches' broom, *Angelonia salicariaefolia* 3500
Neisseria gonorrhoeae 5527
 polarography 3053
 resistance, coliforms, food 6028
 resistance, *Escherichia coli* 1210
 resistance, *Escherichia coli*, food 6028
 resistance, *Neisseria gonorrhoeae* 5527
 resistance, *Pseudomonas aeruginosa* 3749
Streptomyces rimosus 9112
 structure 6615
 trickling filter microorganisms, sewage treatment 3862
 turkey feed, faeces bacteria 7042
 vitamins/nicotinamide/p-aminobenzoic acid 2991
 Oyster,
 indicator bacteria 4216
 microorganisms 9585
 salted, *Vibrio parahaemolyticus* 2587
 shucked, coliforms 932

Subject index

Oyster(Contd),

- Vibrio parahaemolyticus, cold sensitivity 9590
- Vibrio parahaemolyticus, condiments 9588
- yeasts 6086

Ozonation,

- drinking water 2324
- water 2329
- water disinfection 2330

Ozone,

- + olefin, phage phiX174, air 8204 8205
- antifungal agent, cheese rind 2610
- blood preservation 9018
- effluent disinfection 9198
- Helminthosporium maydis, corn 9791
- phage phiX174, air 8204 8205
- poliovirus, sewage 697
- wastewater sterilisation 1471
- water disinfection 5792
- water sterilisation 1471

Ozonium texanum,

- gram 1009

Package,

- antiseptic 3742
- beverage pasteurisation 4250
- food 7796
- milk, packing machine sterilisation 4234
- plastic, ophthalmic medicament 5612
- sterile 3743
- sterile medicament 2162
- sterile, surgical 546 547
- sterile surgical article 1290
- sterilised hypodermic needle 4710
- vacuum bag, meat 8546

Packaged,

- beef, vacuum, microflora 2614
- vacuum, bacon, nitrate curing 5256
- vacuum, beef, microflora 1791
- vacuum, frankfurter, bacteriology 7016

Packaged animal feed,

957

Packaged bacon,

- deep freeze storage, shelf-life 4242

Packaged beef,

- acetic acid 9676
- carbon monoxide, shelf-life 2613
- preservation 1792
- vacuum, bacteria 6127 7803
- vacuum, Yersinia enterocolitica 2612

Packaged chicken patty,

- refrigerated, microbiology 7763

Packaged cottage cheese,

- preservation, pimaricin 6125

Packaged food,

- microwave sterilisation 1777
- sterilisation 1779
- sterilisation, retorting tray 5252

Packaged ham,

- vacuum, sliced, canned, bacteriology 7806

Packaged kanaboko,

- gamma-irradiation preservation 7807

Packaged lamb,

- vacuum, bacteriology 7804
- vacuum, Yersinia enterocolitica 2612

Packaged load,

- sterilisation 1278

Packaged meat,

- meals, heat preservation 9681
- preservation 1789

Packaged meat product,

- heat preservation 9680
- sterilisation 1788

Packaged milk,

- bacteriology 7049
- microbiology 1786

Packaged milk(Contd),

- quality, bacteriology 5254

Packaged minced meat,

- bacteriology/quality control 2583

Packaged product,

- pasteurisation 6120
- sterilisation 6120

Packaged sterile product,

- small-volume, quality control 7362

Packaged trout,

- vacuum, irradiation, Clostridium botulinum toxin 7851
- vacuum, gamma-irradiation, microorganisms 5258

Packaging,

- aseptic, food 6122 7048
- aseptic, food, air microflora 738
- aseptic, medical instrument 2161
- aseptic, milk 8533 8534 8535 8537 9669
- aseptic, milk product 8536
- aseptic, pharmaceutical 2984
- aseptic, ultra-high-temperature milk 4235
- beverage, single-use containers 7795
- beverage, sterile filling 2160
- cheese 217
- cosmetic 5610
- cosmetic, gamma-irradiation preservation 5611

- cosmetic, sterile filling 2160

- food 959 5253 7048

- food, hygiene 5253

- food, polymers, bacteria 8531

- food, single-use containers 7795

- food, sterile filling 2160

- food, sterilisation 1778

- food, ultraviolet sterilisation 9664

- fresh mussels 743

- Hungarian salami, mycotoxins 1800

- meat 6074 7050 8544

- plastic bag, autoclave sterilisation 7352

- plastic, degradation accelerators 3370

- plastic wrapping, meat, bacteriology 8545

- plastics container, food 7047

- polyvinylchloride, beef preservation 9675

- rabbit meat preservation 5255

- sterile 8106 8107 9019 10220

- sterile, food 9665

- sterile, paper 5613

- sterilisation, milk 8532

- vacuum, beef 1790

- vacuum, meat 966

- vacuum, smoked salmon 968

Packaging film,

- beef, shelf-life 7802

Packed fish,

- carbon dioxide snow preservation 4243

Packed herring,

- storage, shelf-life 4246

Packing machine,

- sterilisation 4234

Paecilomyces,

- cassava, protein, food 2564

- cephalosporin 6568

- Leguminosae root/rhizosphere 2865

- nitroperhydropyridodiazepine derivatives 2978

- quaternary ammonium compound 2961

- slime, fibreboard industry 10471

- soil, oil 5517

Paecilomyces buxi,

- English boxwood 10011

Paecilomyces carneus,

- 6-(5-hydroxy-n-valeramido)-penicillanic acid 4760

- cephalosporins, paraffins 4750

- deacetoxycephalosporin C 10282

Paecilomyces elegans,

- 237

- rum distillery slops 7701

Subject index

- Paecilomyces fusidioides**,
237
- Paecilomyces fusisporus**,
fennel rhizosphere, subamycin 2863
pigeon pea rhizosphere 6422
- Paecilomyces persicinus**,
237
cephalosporin C 4749
cephalosporins, paraffins 4750
lipid, hexadecane 486
- Paecilomyces variabilis**,
237
- Paecilomyces variotii**,
237
alpha-aminolaurophe none/alpha-aminolaurophe none derivatives 5571
amphotericin B assay 5693
fungicide 2053
guanidine derivatives 8041
L-malic acid 9328
oil palm kernels 4220
polyvinylchloride building sealant degradation 4279
protein 8342
protein, sunflower seed husks 8340
tree bark fermentation, animal feed 7488
- Paecilomyces victorinae**,
237
- Paeonia lactiflora**,
extracts, antibacterial agent 10141
- Paeonia officinalis**,
Erysiphe ranunculi 304
- Paint**,
antibacterial agent/antifungal agent, benzene derivatives 2131
antibacterial agent/antifungal agent, paraldol 3721
antibacterial agent,
benzotriazine-1,4-dioxide derivatives 2091
antibacterial agent,
2-bromo-2-hydroxyimino-acetophenone derivatives 8066
antibacterial agent, hexamethylenetetramine + 3,4-dichlorobutene-1 1213
antibacterial agent, penicillins 3753
antifungal agent/antibacterial agent,
quaternary ammonium salt 470
Azotobacter indicus heteropolysaccharide-7 1681
bactericide/fungicide 7345
bactericide/fungicide, benzisothiazolinone + quaternary ammonium compound 4687
bactericide/fungicide, isothiazole derivatives 1268
bactericide/fungicide,
polyoxymethyleneoxazolidine 2090
bactericide/fungicide, triorganotin compounds/triorganolead compounds 2129
degradation, Aureobasidium pullulans, wood 2550
fungicide 2053
fungicide, 3,5-dihalo-4-hydroxyacetophenones 8076
fungicide/bactericide, bicyclic
polyoxymethylene-oxazolidines 471
fungicide, guanidine derivatives 8041
fungicide, quaternary ammonium compound 2961
fungistat/bacteriostat, benzisothiazole-3-one derivatives 534
latex, film, fungi, surface disinfection 10092
latex, fungicide, trichloromethyl thioimide polymer 2908
preservative, actinomycin antibiotic 70591 1389
preservative, chlorinated phenols
monochloracetate esters 4614
- Paint film**,
degradation, fungal enzymes 4177
degradation, fungi/bacteria 4176
- Palm**,
betel nut, Colletotrichum gloeosporioides 8679
betel nut, Phyllosticta hesperidearum 1836
coconut, Anthostomella cylindrospora 4382
coconut, Anthostomella fusispora 4382
coconut, Bipolaris halodes, Bordeaux mixture/copper oxychloride 3506
coconut, Botryodiplodia thecstromae 4382
coconut, Enterobacter 5370
coconut, fruit, oxytetracycline, lethal yellowing disease 403
coconut, Kainkope disease 2735
coconut, Kainkope disease, tetracyclines 2821
coconut, kainkope, mycoplasma-like organism 6260
coconut, Leiosphaerella longispora 4382
coconut, lethal yellowing 8687
coconut, lethal yellowing disease/Kainkope disease/cadang-cadang 1922
Coconut, Mycoplasma-like organism, Kainkope disease/Cape St. Paul wilt 1054
coconut, Mycoplasma wilt 4381
coconut, Pestalotiopsis 4382
coconut, Phytophthora palmivora, Bordeaux mixture 3506
lethal yellowing, mycoplasma-like organism, oxytetracycline 8675
oil, Ceratocystis paradoxa, cellulase 5930
oil, Cercospora elaeidis, fungicide 8803 9965
oil, Fusarium oxysporum 7925
oil, Fusarium oxysporum, potassium chloride 387
oil, kernels, fungi 4220
wild date, Phyllosticta helleborella 1836
wild date, Xylaria minuta 1057
- Palma rosa**,
essential oil, antibacterial agent 5548
- Palmitic acid**,
Bacteroides fragilis endotoxin 7848
Epicoccum nigrum 1626
Escherichia coli triglyceride 5888
Scleroderma aurantium 4033
Streptococcus mutans, gas chromatography 5889
Tricholome portentosum oil 6827
- Palmitoleic acid**,
Escherichia coli triglyceride 5888
Streptococcus mutans, gas chromatography 5889
- Palmityl-CoA-ACP-transacylase**,
Mycobacterium smegmatis 856 7642
- Pan**,
Phytophthora parasitica, antibiotics 9970
Rhizoctonia bataticola 8678
- Panaeolus**,
antibiotics, antibacterial agent/antifungal agent 6545
- Panaeolus acuminatus**,
antibiotics, antibacterial agent 6545
- Panaeolus campanulatus**,
antibiotics, antibacterial agent 6545
- Panaeolus cyanescens**,
antibiotics, antibacterial agent 6545
- Panaeolus foenicicii**,
antibiotics, antibacterial agent 6545
- Panaeolus guttulatus**,
antibiotics, antibacterial agent 6545
- Panaeolus leucophanes**,
antibiotics, antifungal agent 6545
- Panaeolus papilionaceus**,
antibiotics, antibacterial agent 6545
- Panaeolus retirugis**,
antibiotics, antibacterial agent 6545
- Panaeolus sphinctrinus**,
antibiotics, antibacterial agent 6545
- Panaeolus subbalteatus**,
antibiotics, antibacterial agent 6545

Subject index

- Pandalus jordanii**,
microbiology 7020
- Pangola grass**,
+ bacteria, nitrogen fixation 8895
pangola stunt virus, electron microscopy 9795
Pyricularia grisea 3483
- Pangola stunt virus**,
Pangola grass, electron microscopy 9795
- Panicum**,
+ Spirillum, nitrogen fixation 5501
resistance, Panicum mosaic virus-St.
Augustine decline strain 6333
- Panicum amarulum**,
resistance, Panicum mosaic virus-St.
Augustine decline strain 6333
- Panicum capillare**,
Sclerophthora macrospora 4335
- Panicum maximum**,
+ Spirillum lipoferum, nitrogen fixation 2893
Spirillum lipoferum, soil, nitrogen fixation 2085
- Panicum miliaceum**,
resistance, Panicum mosaic virus-St.
Augustine decline strain 6333
- Panicum mosaic virus**,
St. Augustine decline strain, millet, resistance 6333
- Panicum repens**,
Pyricularia oryzae 7127
- Panicum stapfianum**,
resistance, Panicum mosaic virus-St.
Augustine decline strain 6333
- Panicum typheron**,
Uromyces setariae-italicae 8593
- Panicum virgatum**,
maize dwarf mosaic virus 1867
nitrogen fixation, nitrogenase 4597
resistance, Panicum mosaic virus-St.
Augustine decline strain 6333
- Panjabi varies**,
Candida krusei/Saccharomyces cerevisiae 4163
- Panogen**,
Operculella padwickii 1100
- Panogen 15**,
Cochliobolus sativus, wheat 5420
Sclerotium rolfsii, brinjal 2011
Sclerotium rolfsii, peanut 2011
- Panolog**,
Pityrosporum canis 5566
- Pansy**,
Mycocentrospora acerina 6282 7159
- Panthothenate amidohydrolase**,
Pseudomonas fluorescens 3300
- Panthothenase**,
Pseudomonas fluorescens 3299 3300
- Panthothenate**,
fermented milk product, microbiological assay 1731
- Panthothenate amidohydrolase**,
Pseudomonas fluorescens 3299
- Panthothenate synthetase**,
Escherichia coli 35
- Pantothenic acid**,
beer/yeast, assay, Lactobacillus plantarum 4160
microbiological assay, beer, yeast 6016
- Papad**,
microorganisms/aflatoxins/Aspergillus parasiticus 2589
- Papaianum**,
Aspergillus niger 3698
Aspergillus terreus 3698
- Papaver**,
microbial disease 3520
- Papaver somniferum**,
pathogenic fungi 4366
rhizosphere, vesicular-arbuscular mycorrhiza 7257
- Papaya**,
Fusarium solani 8665
Gloeosporium papavae post-harvest decay, pectic enzymes, cellulolytic enzymes 6323
Macrophomina phaseolina 2725
Macrophomina phaseolina, fungicide 2802
papaya distortion virus 5359
papaya mosaic virus 3496 1904
Phytophthora palmivora, fungicide 8666
Phytophthora palmivora post-harvest decay, fungicide 8666
post-harvest decay, fungicide 2772
post-harvest decay, gamma-irradiation 4442
virus 2657
virus-infected, Fusarium chlamydosporum 9838
- Papaya distortion virus**,
papaya 5359
- Papaya mosaic virus**,
papaya 1904
papaya 3496
- Paper**,
antibacterial agent, antibiotic U-48266 4789
antibacterial agent/antifungal agent, alkylphenols 531
antibacterial agent/antifungal agent, quaternary ammonium phenolate 2907
antibacterial agent, penicillins 3753
degradation, fungi 2551
foxing 108 109
fungicide 2053
fungicide, 1,2-dithiol-3-thione derivatives 8077
fungicide, formamide derivatives 7336
fungicide, fungal adaptation 468 4615
preservative, chlorinated phenols
monochloracetate esters 4614
products, bacteriostat/fungistat, cyclonexylamine derivatives 10091
sterile packaging 5613
- Paper industry**,
bactericide/fungicide, triorganotin compounds/triorganolead compounds 2129
effluent, fungal treatment 10450
slimicide, alpha-chloro-o-acylbenzaloxime derivatives 3891
wastewater treatment 4864
- Paper mill**,
antibacterial agent/antifungal agent, paraldol 3721
bactericide/fungicide 7345
bactericide/fungicide, isothiazole derivatives 1268
bactericide, methylene bithiocyanate 1495
fungicide/bactericide, halocynoacetamide + haloacetic ester 1496
slimicide, benzisothiazolin-3-one derivatives 534
slimicide, alpha-bromo-p-methylacetophenone + 1,3-dichloroacetone oxime acetate 10470
slimicide, 1,3-dichloroacetone oxime acetate + beta-bromo-beta-nitrostyrene 2320
slimicide, dithiocarbamate derivatives 6526
sludge, composting 6689
water system, Enterobacteriaceae, nitrogen fixation 1493
- Paper strip method**,
heat-stressed Staphylococcus aureus, dairy product 5211
Staphylococcus aureus, dairy product 8473
- Paper strip test**,
penicillinase, Haemophilus influenzae 9266
penicillinase, Neisseria gonorrhoeae 9266
- Papilionaceae**,
Clitoria yellow vein virus 6181

Subject index

Papilionoideae,

- + Rhizobium, nodulation, nitrogen fixation 8900

Papova virus,

- swimming pool 3143

Papulacandin B,

- Papularia sphaerosperma, structure 10397

Papulacandins,

- Papularia sphaerosperma, antifungal agents 10396

Papularia sphaerosperma,

- papulacandin B, structure 10397
- papulacandins, antifungal agents 10396

Papulaspora,

- bottle gourd seed, seed treatment fungicide 8682
- culture filtrate, leaf litter soil fungi 10051
- fennel rhizoplane, subamycin 2863

Paraben,

- bactericide 4653

Paracoccidioides brasiliensis,

- econazole 2974
- miconazole 2974
- X-ray microanalysis 10607

Paracoccus,

- soil, halogenated anilines degradation 8035

Paracoccus denitrificans,

- 5R76
- respiration, electrode monitoring 3953

Paracolobactrum,

- disinfectant 6727

Paracolobactrum aerogenoides,

- frozen erythrocytes 1293

Paracolon,

- L-malic acid 9329
- sulphamethoxazole-trimethoprim 2941

Paraffin,

- see also Alkane
- alkanes, Candida guilliermondii 10101
- Candida lipolytica, citric acid 3663 5022
- fuel tank, microorganisms, organic acids 4617
- microbial protein, food/feed 3664
- Mycobacterium, wax 4148
- oxidation, Torulopsis bombicola, macrocyclic ketone 2920
- Paecilomyces carneus, cephalosporins 4750
- Paecilomyces persicinus, cephalosporins 4750
- Pseudomonas, sugar-lipids, activated sludge 3665
- yeast protein, pig feed 1767

Parainfluenza virus,

- biguanide derivatives 1253 6520
- caffeic acid 8997
- cell culture, gentamicin 611
- 3-deazaguanine/3-deazaguanosine/3-deazaguanyl ic acid 10183
- streptovirudin 10407

Paralol,

- antibacterial agent/antifungal agent 3721

Paranut,

- aflatoxins 7060

Paraqueat,

- degradation, soil Aspergillus niger 4602
- degradation, soil Mucor hiemalis 4602
- degradation, soil Penicillium frequentans 4602
- degradation, soil Zygorhynchus heterogamous 4602
- mycorrhizal fungi 8917
- soil microorganisms 1175 2087 7279

Parasiticol,

- food 7058

Parasporal crystal,

- Bacillus thuringiensis, insecticide 7079
- Bacillus thuringiensis, insecticide, tobacco hornworm assay 7080

Parathion,

- degradation, Pseudomonas aeruginosa 114
- hydrolysis, immobilised bacterial hydrolase 5954
- microbial hydrolysis 113
- rice rhizosphere microorganisms 8916
- salt marsh microorganisms 10072
- soil, nitrophenol degradation, Bacillus 6448
- soil, nitrophenol degradation, Pseudomonas 6448

Paratyphoid,

- see Salmonella paratyphi

Paratyphoid-typhoid vaccine,

- 4844

Paromamine,

- 6-C-aminomethyl-3-deoxy-, derivatives 9089
- ribosyl-, Streptomyces, antibacterial agent 10311

Paromomycin,

- 10258
- 6-deoxy-, derivatives, Streptomyces rimosus 5681
- antibacterial agent 3755
- assay, Staphylococcus aminoglycoside 4-adenylyltransferase 2183
- derivatives, antibacterial agent 3784
- Escherichia coli ribosome 1320
- resistance, Mycobacterium tuberculosis 6482
- resistance, Staphylococcus epidermidis, tobramycin adenylyltransferase 6491
- Streptomyces rimosus 2171

Parsley,

- celery mosaic virus 3499
- Leveillula lanuginosa 7926

Parsnip,

- celery mosaic virus 3499

Parsnip yellow fleck virus,

- anthriscus yellows virus, Cavariella aegopodii 1832 1833

Parthenium hysterophorus,

- essential oil, antibacterial agent 5546
- extract, antibacterial agent/antifungal agent 2932
- rhizosphere/rhizoplane mycoflora 3635

Particle board,

- decay testing, Gloeophyllum trabeum 10028

Partition coefficient,

- cephalosporins, high-pressure liquid chromatography 10248
- penicillins, high-pressure liquid chromatography 10248

Partricin,

- antifungal agent 2267
- esters, antifungal agent 2266
- methyl ester 10266
- methyl ester, antifungal agent 2267
- methyl, stability 645

Parvobacteriaceae,

- penicillin derivatives 1356

Parzate,

- Alternaria, wheat 2005

Paspalum notatum,

- + bacteria, nitrogen fixation 3895

Paspalum sanguinale,

- virus disease 1869

Passenger tyre mesh,

- microbial degradation 116

Passiflora caerulea,

- Passiflora mosaic virus 8710

Passiflora edulis,

- Alternaria macrospora 8711
- Fusarium oxysporum, toxin 7828
- Phytophthora nicotianae 3712
- Septoria passiflorae, benomyl resistance 7214
- woodiness disease virus 1905

Passiflora mosaic virus,

- passionflower 8710

Subject index

Passionflower,

Fusarium oxysporum, toxin 7828

Passiflora mosaic virus 8710

Passionfruit,

Alternaria macrospora 8711

Phytophthora nicotianae 8712

Septoria passiflorae, benomyl resistance 7214

woodiness disease virus 1905

Passionfruit woodiness virus,

bean 1631

Pasta,

Staphylococcus aureus 2591

Pasta product,

frozen, *Staphylococcus aureus* 2590

yeast protein 3404

Paste,

antibacterial agent/antifungal agent,

alkylphenols 531

preservative, cinnamyl phenols 532

Pasteurella,

carbonamidoquinoline-di-N-oxide derivatives 1226

diavericine 10149

efrotomycin 5731

3-(1-methyl-5-nitro-2-imidazolyl-methylideneamino)-2-oxazolidinone 2114

ormethoprim 10149

quinoxaline-1,4-dioxide derivatives 3689

sulphadimethoxine 10149

sulphadimethoxine-trimethoprim/ormethoprim/diaveridine 10149

sulphaquinoxaline 10149

sulphaquinoxaline-trimethoprim/ormethoprim/diaveridine 10149

Tritrissen (sulphadiazine + trimethoprim) 2939

trimethoprim 10149

Pasteurella greuriae,

phalsa, *Alternaria* 1073

Pasteurella haemolytica,

antibiotic A23187 2239

chicken manure, composting 8222

chloramphenicol 3747

culture medium 10583

3-(1-methyl-5-nitro-2-imidazolyl-methylideneamino)-2-oxazolidinone 2114

pasteurellosis vaccine 3839

penicillin resistance 3747

streptomycin/penicillin/tetracycline resistance 3747

streptomycin resistance 3747

tetracycline resistance 3747

Pasteurella multocida,

antibiotic A16884 6619

antibiotics 6548

cephalosporin R-sulphoxides 4736 5637

chelocardin anilino derivatives 3064 5726

chicken manure, composting 8222

chloramphenicol 3747

culture medium 10583

immunogenic fraction 5137

3-(1-methyl-5-nitro-2-imidazolyl-methylideneamino)-2-oxazolidinone 2114

pasteurellosis vaccine 3839

penicillin R-sulphoxides 4736 5637

penicillin resistance 3747

penicillins 3777

quinoxaline-2-carboxamide-1,4-dioxide derivatives 8982

6-spirocycloalkylamino 5-nitropyrimidine derivatives 2947

streptomycin/penicillin/tetracycline resistance 3747

streptomycin resistance 3747

tetracycline resistance 3747

triorganotin compounds/triorganolead compounds 2129

Pasteurella multocida vaccine,

turkey, sulphaquinoxaline feed 204

Pasteurella pestis,

see also *Yersinia pestis*

gentamicin, mutagen 10317

penicillin G resistance, penicillinase, R factor 5532

Pasteurella pestis vaccine,

3084

aerosolation 6669

scanning electron microscopy 3631

Pasteurella pseudotuberculosis,

see *Yersinia pseudotuberculosis*

Pasteurellosis vaccine,

3839

Pasteurisation,

beverage 3412 4250

blue crab, *Clostridium botulinum* 9683

canned ham, swine fever virus 4240

container-packaged product 6120

cream, *Salmonella typhimurium* 1727

egg product 7760

food, plate heat exchanger 2605

milk 9668

milk, bacteria/viruses 4236

milk, *Escherichia coli* 7800

poultry 9673

Pasteurised milk,

bacterial count 7732

post-pasteurisation bacterial contamination 7798

psychrotrophic bacteria 9539

spiral plate count method 136

Staphylococcus aureus, paper strip method 8473

Streptomycetes, isolation medium 7734

ultra-high temperature, preservation 9667

Pasteuriser-steriliser,

falling-film, milk 960

Pastinaca sativa,

celery mosaic virus 3499

Paste,

Pithomyces chartarum, earthworm 2067

Pithomyces chartarum, fungicide 2004

Pasty,

Karelian, *Bacillus cereus*/*Bacillus subtilis*, sorbic acid/sorbate 8551

Patent,

microbiology 4995 10643

PathoTec Rapid I-D System,

Enterobacteriaceae 2378

Salmonella/Enterobacteriaceae, food 9534

Pathotec rapid identification system,

1560

Pathotec test system,

Aeromonas formicans 10558

Aeromonas hydrophila 10558

bacteria 7540

Enterobacteriaceae 10558

Plesiomonas shigelloides 10558

Pathotoxin,

Helminthosporium maydis, corn 7125

Patulin,

9688

animal mycotoxins 3427

apple juice, thin-layer chromatography 8572 9717

Bacillus subtilis 2633

Byssoschlamys fulva 237

Byssoschlamys nivea 237

Byssoschlamys nivea, water activity 977

carbon-14 labelled, *Penicillium patulum* 7070

cider, activated charcoal 1809

food 7055 8467

fruit/fruit products 8571

grape/grape juice/wine, wine, patulin 7830

high performance liquid chromatography, food 8570

human cell culture, cytocide 5260

Penicillium cyaneo-fulvum, culture medium 236

subject index

itulin(Contd),

Penicillium expansum 987 7069
 Penicillium expansum, gamma-irradiation 3436
 Penicillium expansum, water activity 977
 Penicillium patulum 987
 Penicillium patulum, gamma-irradiation 3436
 Penicillium rivolii, culture medium 236
 Penicillium stoloniferum fast-moving virus 521
 Penicillium urticae 4266
 Penicillium urticae, gas-liquid chromatography 7071
 Penicillium urticae, water activity 977
 sulphur dioxide, apple juice/cider 7829
 vegetables/vegetable products 8571
Xillus panuoides,
 fungicide 2053
sa,
 + Rhizobium 4581
 + Rhizobium leguminosarum, nitrogen fixation 8909
 + Rhizobium leguminosarum, nodulation, nitrogen fixation 6446
 + Rhizobium, nodulation/nitrogen fixation 4591
 Aphanomyces euteiches, dinitramine 6353
 Aphanomyces euteiches, herbicide 7968
 Aphanomyces euteiches, pisatin 1857
 Aphanomyces euteiches, trifluralin 6353
 Ascochyta 9766
 Ascochyta pinodella 9766
 Ascochyta pisi 9766
 Bacillus cereus haemolysin 7078
 Bacillus cereus phospholipase C 7078
 Botrytis cinerea 9766
 Erysiphe graminis 6190
 Erysiphe pisi 4306 9767
 Erysiphe pisi, pisatin 8788
 Erysiphe polygoni 2676 2677
 Erysiphe polygoni, sulphur fungicide 8812
 fungal diseases 9766
 Fusarium avenaceum 9766
 Fusarium culmorum 9766
 Fusarium oxysporum 2678 4307
 Fusarium oxysporum, biological control 5412
 Fusarium oxysporum + pea mosaic virus 7872
 Fusarium oxysporum, soil 7867
 Fusarium solani 3466
 Fusarium solani, histones 9954
 glycine/D-norvaline, Rhizobium 4592
 lectins, + Rhizobium, nitrogen fixation 8899
 Mycoplasma 1855
 pea early-browning virus 5306
 pea enation mosaic virus 5307
 pea leaf roll virus 7113
 pea seedborne mosaic virus 1854
 Peronospora pisi 9766
 Peronospora viciae 4367
 pisatin 6350
 Pleospora infectoria, pectolytic enzymes 7643
 Pythium ultimum, 2-aminopyrimidine derivatives 395
 resistance, Erysiphe polygoni 2677
 resistance, Fusarium oxysporum 1011
 resistance, Peronospora pisi 4470
 resistance testing, Fusarium oxysporum + Aphanomyces euteiches 6329
 Rhizobium leguminosarum bacteroid 4590
 Rhizopus nigricans 9766
 root rot fungi, fungicide 377
 Sclerotinia sclerotiorum, scanning electron microscopy 6173
 seed, Aspergillus flavus 1838
 seed, Fusarium oxysporum 1856
 seed, Fusarium oxysporum, seed dressing 1012
 Septoria pisi 9766
 tomato spotted wilt virus 1831
 Verticillium dahliae 254
 white clover mosaic virus 1831

Pea early-browning virus,
 broad bean 5306
 pea 5306
Pea enation mosaic virus,
 broad bean 5307
 Chenopodium 5307
 pea 5307
Pea leaf roll virus,
 bean 2667
 broad bean 2667
 chickpea 2667
 pea 7113
Pea mosaic virus,
 pea, Fusarium oxysporum 7872
Pea necrosis virus,
 clover yellow vein virus 9761
Pea seedborne mosaic virus,
 lentil 8610
 pea 1854
Peach,
 Agrobacterium tumefaciens, biological control 401 7219
 Agrobacterium tumefaciens, biological control, Agrobacterium radiobacter 2820
 Cytospora leucostoma 9618
 Cytospora leucostoma, benomyl 2023
 Geotrichum candidum post-harvest decay 7190
 microbial diseases 9817
 Monilia impectata post-harvest decay 7190
 Monilinia fructicola, benzimidazole 399
 peach rosette mosaic virus 251
 peach rosette + peach decline 8667
 phony disease, rickettsia-like organism, vacuum infiltration, phase-contrast microscopy 9840
 Podosphaera leucotricha 8669
 post-harvest decay, fungicide 348
 prune dwarf virus 5360 8668
 prune dwarf virus + Prunus necrotic ringspot virus 7902
 prune dwarf virus + Prunus necrotic ringspot viruses 9839
 Pseudomonas mors-prunorum 6247
 Pseudomonas syringae 301 3497
 resistance, Taphrina deformans 8774
 Sclerotinia fructicola, benzimidazole fungicide tolerance 8798
 Sclerotinia laxa 1900
 Sharka virus, purification 2401
 Sphaerotheca pannosa, fungicide 2795 2796
 Taphrina deformans 302
 Tranzschelia pruni-spinosae 9620
 X-disease, mycoplasma-like organism, oxytetracycline 6375
 Xanthomonas pruni, phase 1906
 Xanthomonas pruni 9841
Peach decline,
 + peach rosette, prune dwarf virus + Prunus necrotic ringspot virus, peach 8667
Peach mosaic virus,
 dodder transmission 1610
Peach rosette,
 + peach decline, prune dwarf virus + Prunus necrotic ringspot virus, peach 8667
Peach rosette and decline,
 prune dwarf virus + Prunus necrotic ringspot virus, peach 7902
 prune dwarf virus + Prunus necrotic ringspot viruses, peach 9839
Peach rosette mosaic virus,
 grapevine 251
 peach 251
Peach wine,
 2,6-dichloro-4-nitroaniline 7700
Peanut,
 + Rhizobium, nitrogen fixation 4582
 aflatoxin B1, minicolumn chromatography/thin-layer chromatography 3433
 aflatoxin, Monte Carlo method 2626

Subject index

Peanut(Contd),

- aflatoxins 982 1807 5272 5273 7060 9703
- aflatoxins, spectrofluorometry 5274
- Arachia mottle virus 5308
- Arachis hypogaea 2680
- Aspergillus flavus 1014 1852 5273
- Aspergillus flavus, aflatoxins 9708
- Aspergillus niger 1852 2679 5273
- Aspergillus niger, fungicide 9959
- Aspergillus oryzae 2595
- Aspergillus parasiticus 2595
- Calonectria crotalariae, aerial infrared imagery 6191
- Cercospora arachidicola 7114
- Cercospora arachidicola, chlorothalonil 2016
- Cercospora personata, carbendazim 4516
- Cercospora personata, thiabendazole 4516
- Cercosporidium personatum, chlorothalonil 2016
- disease resistance 2776 2777
- fungal/mycotoxins 2773
- Fusarium/Rhizoctonia/Sclerotium, fungicide 266
- groundnut rosette virus 9768
- Leptosphaerulina crassiasca 6193
- meal, aflatoxins, animal feed 7062
- meal, aflatoxins, formaldehyde + calcium hydroxide 228
- Neurospora sitophila 2595 3407
- nodules, groundnut chlorotic spot virus 1013
- oligophynophoria, virus 1851
- peanut clump virus 3467
- pod rot fungi 6192
- pod rot fungi, plant protection 6345
- press cake, fermentation 3408
- Puccinia arachidis 6194 8611
- Puccinia arachidis, fungicide 8612
- resistance, Cercospora arachidicola 1979
- resistance, Cylindrocladium crotalariae 8766
- Rhizoctonia bataticola, dextranase 1835
- Rhizoctonia solani 1015
- Rhizopus oligosporus 2595 3407
- rhizosphere, mycoflora 6421
- Sclerotium rolfsii 1015
- Sclerotium rolfsii, cyanomethylmercuri)guanidine 2011
- Sclerotium rolfsii, dinoseb 9957
- Sclerotium rolfsii, fensulfothion 2086
- Sclerotium rolfsii, fungicide 9960
- Sclerotium rolfsii, oxadiazon 9957
- seed, Aspergillus flavus 1838
- soil, Aspergillus flavus/Aspergillus niger 433
- soil, Cylindrocladium crotalariae, elutriator 1167
- Uredo arachidis 2662
- Verticillium 6195
- witches broom, mycoplasma 5308

Peanut butter,

- aflatoxins, high-pressure liquid chromatography 6966

Peanut clump virus,

- great millet 6220
- peanut 3467

Peanut mottle virus,

- soybean 9770
- soybean, resistance 2778

Peanut stunt virus,

- red clover 3462
- Tillman white clover 8607

Pear,

- Alternaria tenuis 9842
- Botryodiplodia malorum 9843
- decline, mycoplasma-like organism, fluorescence microscopy 1047
- decline, terramycin, pressure machine, tree injection 7996
- Erwinia amylovora, bactericide 5439
- Erwinia amylovora, biological control 5439

Pear(Contd),

- Erwinia amylovora, streptomycin resistance 2822
- Erwinia amylovora, triazinedione derivatives 1119
- Gymnosporangium sabinae 9819
- Japanese, Alternaria kikuchiana, AK-toxin 3498
- pear vein yellows virus 5361
- Podosphaera leucotricha, diphenyl pyrazolium derivatives 1114
- Podosphaera leucotricha, pyrazolium derivatives 4511
- Pseudomonas syringae, antibacterial agent 8828
- resistance, Erwinia amylovora 3554 8775
- Trichothecium roseum post-harvest decay, trichothecine, trichothecolone 8750
- Venturia pirina 2726
- Venturia pirini, fungicide 2795 2796
- Venturia pirini, thioureidobenzene phosphates 2014

Pear vein yellows virus,

- pear 5361

Pearl millet,

- + Spirillum lipoferum, nitrogen fixation 2893
- Claviceps microcephala 1021
- Sclerospora graminicola 1021

Peat,

- neutralysates, Candida scottii 2433
- nitrogen fixation 2071
- Rhizobium leguminosarum, yeast extract-mannitol agar 8898

Peat bog,

- acid, microbial degradation 10039

Peat hydrolysate,

- culture medium, yeast, protein/biomass/carotenoid 2434

Pecan,

- aflatoxins, fluorescence 5275
- Aspergillus flavus, aflatoxin 4261
- Aspergillus parasiticus, aflatoxin 4261
- bunch disease, mycoplasma-like organism 8670
- Fusicladium effusum, benomyl 4519
- nut, Alternaria, alternariol monomethyl ether, alternariol 6956
- nut, sterigmatocystin, Aspergillus flavus, Aspergillus glaucus 7835
- weevil-damaged nuts, Penicillium lanoso-coeruleum, penitrem A, toxin 9719

Pecilocin,

- antifungal agent 2992

Pectate lyase,

- Erwinia chrysanthemi 3301
- Nigrospora sphaerica 7643
- Pleospora infectoria 7643

endo-Pectate lyase,

- Curvularia lunata 5083
- Macrophomina phaseolina 5084

exo-Pectate lyase,

- Curvularia lunata 5083

endo-Pectate transeliminase,

- Collectotrichum coccodes, tomato 6309

Pectic acid transeliminase,

- Helminthosporium apatarnae 5085
- Pseudomonas viridiflava 5081
- Verticillium dahliae, cotton 6263

Pectic enzyme,

- Curvularia lunata 5083
- Gloeosporium papayae, papaya post-harvest decay 6323
- Lasiodiplodia theobromae, sweet potato post-harvest decay 353
- Macrophomina phaseolina 5084
- Pseudomonas viridiflava 5081

Pectin esterase,

- Aspergillus niger 3302
- Aspergillus niger, citric acid fermentation flow-off 8384

Subject index

- Pectin esterase(Contd),**
microbial 5041
Sclerotinia sclerotiorum 9429
- Pectin lyase,**
Nigrospora sphaerica 7643
Pleospora infectoria 7643
- endo-Pectin lyase,**
Macrophomina phaseolina 5084
- exo-Pectin lyase,**
Curvularia lunata 5083
- Pectin methyl esterase,**
Collectotrichum coccodes, tomato 6309
- Pectin methyl-trans-eliminase,**
Gloeosporium papayae, papaya post-harvest decay 6323
- Pectin methylesterase,**
Erwinia carotovora, squash 352
Nigrospora sphaerica 7643
Phytophthora cryptogea, squash 352
Pleospora infectoria 7643
Rhizoctonia bataticola, okra 1070
Sclerotinia sclerotiorum, bean 4303
Verticillium dahliae, cotton 6263
- Pectin transeliminase,**
Collectotrichum coccodes, tomato 6308
Erwinia carotovora, squash 352
Fusarium oxysporum, potassium, melon wilt 7154 7922
Helminthosporium apattarnae 5085
Phytophthora cryptogea, squash 352
Pseudomonas viridiflava 5081
Verticillium dahliae, cotton 6263
- endo-Pectin transeliminase,**
Collectotrichum coccodes, tomato 6309
- Pectinase,**
Aspergillus niger 3302
microbial 5041
microbial, food 134
- Pectinmethylesterase,**
Botrytis cinerea 1631
Fusarium coeruleum, potato 8718
Fusarium moniliforme 1631
Fusarium sulphureum, potato 8718
Pestalotia 1631
Phoma exigua 1631
- Pectinolytic enzyme,**
Fusarium oxysporum, potassium, melon 7922
Fusarium oxysporum, potassium, melon wilt 7154
- Pectobacterium,**
spices 1761
- Pectobacterium carotovorum,**
corn 9785
potato post-harvest decay, chloramphenicol 6324
potato post-harvest decay, streptomycin 6324
- Pectobacterium chrysanthemi,**
corn 8634
- Pectobacterium phytophthorum,**
potato, rishitin/lyubimin 4495
- Pectolytic enzyme,**
Nigrospora sphaerica 7643
Penicillium digitatum 4032
Pleospora infectoria 7643
Sclerotinia sclerotiorum 9429
Sclerotinia sclerotiorum, bean 4303
- Pediococcus,**
A.P.I. *Lactobacillus* system 8279
brewery, sucrose agar culture medium 5170
hop oil emulsion, beer 5168
- Pediococcus acidilactici,**
fermented sausage 7018
- Pediococcus cerevisiae,**
aspartate aminotransferase 5053
brewery, culture medium 7699
country-style ham 7771
country-style ham microorganisms 7772
fermented meat product 6082
sauerkraut 2593
sausage 1752
- Pediococcus cerevisiae(Contd),**
wine, amino acids 106
- Pediococcus damnosus,**
brewery, hygiene 8444
- Pedoscope,**
capillary, soil microbiology 1160
- Pelargonium,**
see also *Geranium*
Puccinia pelargonii-zonalis, fungicide 6364
- Pelargonium hortorum,**
Pythium splendens 6694
- Pelargonium x hortorum,**
Puccinia pelargonii-zonale, cold treatment 9949
tobacco ringspot virus 7151
tomato ringspot virus 7151
- Pellet,**
10608
mycelial, Gompertz's law 3202
- Pellicularia,**
ethylimidazole derivatives, plant protection 8214
1-propyl-1,2,4-triazolyl derivatives 2018
triazolyl-O,N-acetal derivatives, plant protection 394
- Pellicularia filamentosa,**
8-hydroxy-6 α -11 α -dimethyl-3-alkyl-acetyl-1,2,3,4,5,6-hexahydro-2,6-methano-3-benzazocin-methano-3-benzazocin transformation 2535
cellulase 9370
dihalo-sulphonate derivatives, plant protection 7979
herbicide A/herbicide B 5741
microbial cell wall-lysing enzyme complex 4072
oxazolidine derivatives 3703
phosphoryl phenyldiamine derivatives 1118
tetrahydrocannabinol hydroxylation 4146
- Pellicularia rolfsii,**
plant disease 2656
- Pellicularia sasakii,**
bis-trifluoromethyl-imine-imidazolone derivatives, plant protection 5429
carbamate derivatives, plant protection 4506
carboxyanilidofuran derivatives, plant protection 7982
dihalo-sulphonate derivatives, plant protection 7979
microbial cell wall-lysing enzyme complex 4072
phosphoryl phenyldiamine derivatives 1118
rice, BAS 3050 F 1109
rice, 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589
rice, thioureidobenzene phosphates 2014
- Pelt,**
Cercospora elaeidis, oil palm 8803 9968
- Peltar,**
Septoria tritici, wheat 9964
- Penaeus setiferus,**
gamma-irradiation preservation 6128
storage, bacteriology 8512
- Penam,**
3013
derivatives, antibacterial agent/animal, feed 594
derivatives, antibacterial agent/animal feed/disinfectant 3006
derivatives, circular dichroism 7404
sulphonium slats 6587
- Penicillanic acid,**
6-(5-hydroxy-n-valeramido)-, *Paecilomyces carneus* 4760

Subject index

Penicillanic acid(Contd),

- 6-(alpha-3-acyl-ureidoacetamido)-, antibacterial agent 7410
- 6-amino-, antibacterial agent 6583
- 6-amino-, bacterial penicillin amidase 598
- 6-amino-, base-catalysed hydrolysis 10304
- 6-amino-, derivative, antibacterial agent 9050
- 6-amino-, derivatives 8158
- 6-amino-, derivatives, antibacterial agent 3778
- 6-amino-, derivatives, antibacterial agent, animal feed 10303
- 6-amino-, *Epidermophyton floccosum* 1295
- 6-amino-, *Escherichia coli* 6583
- 6-amino-, immobilized bacterial penicillin amidase + penicillin 4763
- 6-amino-, *Leptosphaerulina*, penicillin amidase 5676
- 6-amino-, microbial penicillin deacylase 9086
- 6-amino-, penicillin, immobilized *Escherichia coli* 9077
- 6-amino-, *Phialomyces*, penicillin amidase 5676
- 6-amino-, *Proteus mirabilis* 6583
- 6-amino-, *Robillarda*, penicillin amidase 5676
- 6-amino-, *Staphylococcus aureus* 6583
- 6-amino-, *Trichophyton mentagrophytes* 1295
- 6-amino-, *Trichophyton rubrum* 1295
- 6-beta-amidino-, *Bacillus licheniformis* penicillinase 10249
- 6-(N,N-1,6-hexyleneformamidino)-, pivaloyloxymethyl ester, antibacterial agent 5675
- 6beta-[(hexahydro-1H-azepin-1-yl)methylenamino]-, stability 6586
- (beta-methyl-3H)-6-amino- 2219
- derivative, *Escherichia coli* 4768
- derivative, RIT 2214, *Cephalosporium acremonium*, antibacterial agent 9078
- derivatives, antibacterial agent 554 595 596 606 3040 4765
- derivatives, antibacterial agent, animal feed 6591
- derivatives, epimerisation 6585

Penicillanic acid, alpha-aminophenylacetamido-, see Ampicillin

Penicillic acid,

- Aspergillus ochraceus* 235
- carbon-14 labelled, *Penicillium cyclopium* 7831
- food 7055 8467
- high performance liquid chromatography, food 8570
- human cell culture, cytocide 5260
- Penicillium cyclopium* 9718

Penicillin,

- 591 3776 4152 7591
- 2-isopropoxynaphth-1-yl-, + cephaloridine/cephalothin, antibacterial agent 556 557
- 6alpha-methoxy-, derivatives 4737
- 6beta-isocyano-, derivatives 7373
- + aminoglycoside antibiotic, *Streptococcus group D* 5634
- + aminoglycoside antibiotic, *Streptococcus viridans* 5634
- binding components, *Bacillus megaterium* 8148
- binding proteins, *Escherichia coli* 6847
- + colitetracycline, *Escherichia coli*/*Staphylococcus aureus* 3754
- + EDTA, *Escherichia coli*, endonuclease I, cyclic phosphodiesterase 9386
- + immobilized bacterial penicillin amidase, 6-amino-penicillanic acid 4763
- + netilmicin, *Streptococcus group D* 10253
- + sulphadiazine, *Streptococcus mutans* 603

Penicillin(Contd),

- + tetracycline/streptomycin/rifampicin, *Brucella*, L-form 5639
- N-acetylcysteine 10238
- admixture flocculation 3022
- alpha-aminoacyl- 5678
- alpha-ethyl-alpha-aminopropyl-, antibacterial agent 1364
- aminoacyl-, antibacterial agent 2222
- anaerobic bacteria 7375
- anaerobic bacteria, antibiotic sensitivity testing 2165
- anaerobic bacterium 5673
- analogue, antibacterial agent 8121
- analogues 10250
- antibacterial agent 9305 10286
- antibacterial agent, sensitivity test broth/urine 3009
- antibiotic sensitivity testing 5625
- antibiotic sensitivity testing, blood culture 551
- Aspergillus nidulans* 1346 3023
- bacterium-like organism, clover rugose leaf curl disease 261
- Bacteroides fragilis* 2996
- beta-haemolytic *Streptococcus* 5633
- binding-peptide, *Bacillus subtilis* D-alanine carboxypeptidase 6835
- BL-P1654, + gentamicin, *Pseudomonas aeruginosa* 6556
- BL-P1654, *Pseudomonas aeruginosa* 6556
- cephalosporin lactone 3775
- chicken feed 202 9628
- Chlamydia trachomatis* 10242
- chloromethyl esters, antibacterial agent 597
- Corynebacterium, cardamom* 8831
- derivatives 1318 3779 3780 4734 6588 8158 9087 10251 10300
- derivatives, antibacterial agent 1310 1311 1312 1313 1316 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 3004 3037 5638 5677 6554 7407 7409 7410 8125 8159 8160 9048 9085 10295 10296 10297 10298 10299 10301
- derivatives, antibacterial agent/animal feed 594 1314 1315 6589 6590 7405 7406 7408
- derivatives, antibacterial agent/animal feed/disinfectant 3006 3007 8124
- derivatives, antibacterial agent/animal feed/mastitis 3038
- derivatives, cephalosporin derivatives 9072 9073
- derivatives, circular dichroism 7404
- Escherichia coli* D-alanine carboxypeptidase 1A 11
- esters, antibacterial agent 3008
- flocculation 1348
- hop crinkle disease 7221
- immobilized *Escherichia coli*, 6-aminopenicillanic acid 9077
- immobilized microbial enzymes 5039
- immobilized penicillinase-based flowing-stream analyser 589
- isoxazolyl-, antibacterial agent 3752
- mastitis-causing microorganisms 2167
- milk 1723 3382
- milk, assay, *Bacillus stearothermophilus* 2565 8477 8478 9538
- milk, Delvotest-P 6994
- mycoplasma, 'witches' broom, *Angelonia salicariaefolia* 3500
- Neisseria gonorrhoeae* 2997 5527 8118 9084
- Neisseria meningitidis* 4724
- Penicillium chrysogenum* 1346 2217 4739 5668 5669 6579 10286
- Penicillium chrysogenum*, culture medium 590 2216
- Penicillium chrysogenum*, light 4732
- Penicillium chrysogenum*, lipid/oil 6543
- Penicillium chrysogenum*, medium 9074

Subject index

Penicillin(Contd),

Penicillium chrysogenum,
 N-nitroso-N-methylbiuret 5667
Penicillium javanicum 8147
Penicillium notatum 6875 7591 10286
 phthalide esters, antibacterial agent 3039
 pig feed, *Salmonella typhimurium* 206
 R-sulphoxides, antibacterial agent 4736 5637
 resistance, bacteria 1199 5526
 resistance, *Bacteroides melaninogenicus*,
 penicillinase 7303
 resistance, *Escherichia coli* 2101 3676 6474
 resistance, *Klebsiella* 6474
 resistance, *Lactobacillus fermenti*,
 acriflavine 1204
 resistance, *Neisseria gonorrhoeae* 5527 9084
 resistance, *Neisseria gonorrhoeae*,
 beta-lactamase 8051
 resistance, *Neisseria gonorrhoeae*,
 beta-lactamase, R-factor 6478
 resistance, *Neisseria gonorrhoeae*,
 penicillinase paper strip test 9266
 resistance, *Pasteurella haemolytica* 3747
 resistance, *Pasteurella multocida* 3747
 resistance, *Rhizobium* 2924
 resistance, *Staphylococcus* 4637 4641
 resistance, *Staphylococcus aureus* 5533 7305
 resistance, *Staphylococcus aureus* L-form
 3750
 resistance, *Staphylococcus aureus*,
 penicillinase 7304
 resistance, *Yersinia pseudotuberculosis* 4638
 sensitivity testing, anaerobic bacteria
 10232
 sensitivity testing, anaerobic bacteria,
 Wilkins-Chalgren medium 10229
Staphylococcus 1308 1309 3001
Staphylococcus, anaerobiosis 9044
Staphylococcus aureus 2169
Streptococcus 3751
Streptococcus faecalis 3003
Streptococcus group D 5634
Streptococcus mutans 552
Streptococcus viridans 5634
Streptomyces griseus, streptomycin 6592
 sulphones, structure, nuclear magnetic
 resonance spectroscopy 3036
 sulphoxides, structure, nuclear magnetic
 resonance spectroscopy 3036
 trickling filter microorganisms, sewage
 treatment 3862
 turkey feed 203
 ureidoacetamido-, derivatives, antibacterial
 agent 8161
Yersinia enterocolitica 4730

Penicillin acylase,

bacteria, phenylacetic acid assay 5963
Bovista plumbea 3303
 immobilization 4056
 microbial, cephem derivatives 9065

Penicillin, (-)-(alpha-amino-p-hydroxy-benzyl)-

see Amoxycillin

Penicillin, alpha-aminobenzyl-,

see Ampicillin

Penicillin amidase,

Bacillus megaterium 5087
 bacterial, 6-aminopenicillanic acid 598
 bacterial, immobilized, + penicillin,
 6-amino-penicillanic acid 4763
Escherichia coli 8377 8378 8379 9424
Escherichia coli,
 7-phenylacetamidodeacetoxycephalosporanic
 acid hydrolysis 5984
Escherichia coli, immobilisation 8380 8381
Escherichia coli, penicillin G 4100 4101
 9076
 immobilized *Escherichia coli*, penicillin,
 6-aminopenicillanic acid 9077
 immobilized/soluble, *Escherichia coli*,
 phenylmethylsulphonyl fluoride 7644

Penicillin amidase(Contd),

Leptosphaerulina, 6-aminopenicillanic acid
 5676
Phialomyces, 6-aminopenicillanic acid 5676
Robillarda, 6-aminopenicillanic acid 5676

Penicillin amidohydrolase,

Bovista plumbea 3303

Penicillin, benzyl-,

see Penicillin G

Penicillin-binding protein,

Escherichia coli 5034

Penicillin deacylase,

microbial, 6-aminopenicillanic acid 9086

Penicillin G,

1362 10221
 5-epi- 601
 5-epi-, derivatives 601
 + amikacin 4794
 + antibacterial agent, *Streptococcus group D*
 5752
 + cephexazole, bacterial beta-lactamase
 resistance, mastitis 10252
 + chloramphenicol, *Staphylococcus aureus*
 8127
 + gentamicin, *Listeria monocytogenes* 5641
 + netilmicin, *Streptococcus faecalis* 5752
 + netilmicin, *Streptococcus faecium* 5752
 + nickel 9079
 + phosphonomycin, antibacterial agent 6558
Actinomyces israelii 7369
 alpha-haemolytic *Streptococcus* 4728
 anaerobic bacteria 2994 3610
 antibacterial agent 2178 3752 7376
 antibacterial agent, antibiotic sensitivity
 testing 9035
 antibiotic mixture, microbiological assay
 2990
 aqueous medium-butylacetate system 3033
Arachnia propionica 7369
Bacillus stearothermophilus D-alanine
 carboxypeptidase,
 5,5-dimethyl-delta2-thiazoline-4-carboxylic
 acid 4141
 bacterial beta-lactamase, double disc method
 3288
Bacteroides fragilis 2166
 (beta-methyl-H)- 2219
 bile system microflora 2995
 binding proteins, *Escherichia coli* 4761 5034
Chlamydia trachomatis 10294
Clostridium perfringens 5628 7371
Corynebacterium minutissimum 1306
Corynebacterium parvum 1306
 derivatives, antibacterial agent 1363
Enterobacter aerogenes 1214
Epidermophyton floccosum 1295
Escherichia coli 555 1214 1304
Escherichia coli penicillin amidase 4100
 4101 9076 9424
Escherichia coli penicillin-binding proteins
 5908
Haemophilus parainfluenzae 8115
 hydrolysis, *Escherichia coli*
 penicillinamidase 600
 hydroxypropyl methylcellulose artificial tear
 solution 4712
 immunoassay, *Escherichia coli*
 beta-galactosidase 4762
 impurities 1361
Klebsiella pneumoniae 1214
Listeria monocytogenes 5629
 mastitic milk fermentation, cattle feed 4229
 melanin 1303
 milk, assay, *Sarcina lutea*/*Bacillus subtilis*
 5206
 minibag/minibottle antibiotic admixtures,
 stability 9030
 ophthalmic ointment, sterility testing 1294
 oxa-, antibacterial agent 553
Pasteurella multocida 6548

Subject index

Penicillin G(Contd),

Penicillium chrysogenum 592 9075
 Propionibacterium acnes 1306 5630
 Propionibacterium avidum 1306
 Propionibacterium granulosum 1306
 Proteus 1304 9046
 Proteus mirabilis 1214
 Proteus mirabilis L-form DD-carboxypeptidase 4069

Pseudomonas aeruginosa 1214 1304
 resistance, Bacillus licheniformis, penicillinase, alkylsulphates/alkylarylsulphonates 8953
 resistance, Neisseria gonorrhoeae 2099
 resistance, Pasteurella pestis, penicillinase, R factor 5532
 resistance, Pseudomonas aeruginosa, beta-lactamase 2102
 resistance, Staphylococcus aureus 7302
 resistance, Staphylococcus, penicillinase, alkylsulphates/alkylarylsulphonates 8953
 seed treatment, Bacillus subtilis, soybean seed 8615

Staphylococcus 1304
 Staphylococcus aureus 1214
 Streptococcus faecalis 1214 3003
 Streptococcus group B 602 3194
 sulphoxides 4738
 tolerance, Bacillus subtilis 2168
 tolerance, Streptococcus pneumoniae 2168
 Trichophyton mentagrophytes 1295
 Trichophyton rubrum 1295
 vitamins/nicotinamide/p-aminobenzoic acid 2991

Penicillin G sulphoxide,

2218

Penicillin N,

lysed Cephalosporium acremonium 9047

Penicillin, phenoxymethyl-,

see Penicillin V

Penicillin sulphoxide,

2218

3-methylenecepham sulphoxides 2176
 circular dichroism 7404
 deacetoxycephalosporins 577
 desacetoxycephalosporin 1317

Penicillin V,

10221

anaerobic bacteria 3010
 antibacterial agent 3752
 Enterobacteriaceae 6557
 oxaz, antibacterial agent 553
 Pasteurella multocida 6548
 quality control, membrane filtration 10287

Penicillinamidase,

Escherichia coli, penicillin G hydrolysis 600

Penicillinase,

Aeromonas hydrophila 36
 Bacillus 2487
 Bacillus licheniformis 37 3304 5087 8382
 Bacillus licheniformis, 6-beta-amidinopenicillanic acid 10249
 Bacillus licheniformis, 7-beta-amidinodacetoxycephalosporanic acid 10249
 Bacillus licheniformis, chemostat culture 5913
 Bacillus licheniformis, penicillins resistance, alkylsulphates/alkylarylsulphonates 8953
 Bacteroides 3249
 Bacteroides melaninogenicus, penicillin resistance 7303
 cephalosporin antibiotic SK & F 59962 1326
 Escherichia coli, ampicillin resistance 3676
 Escherichia coli, penicillin resistance 3676
 Haemophilus influenzae, assay 1203
 Haemophilus influenzae, paper strip test 9266

Penicillinase(Contd),

immobilized, -based flowing-stream analyser, penicillin 589
 Neisseria gonorrhoeae, paper strip test 9266
 Neisseria gonorrhoeae, starch paper method 9425
 Pasteurella pestis, penicillin G resistance, R factor 5532
 penicillins, milk 4192
 Serratia marcescens, penicillins/cephalosporins resistance 3674
 Staphylococcus, agar plate tests 2417
 Staphylococcus aureus, agar-overlay test 38
 Staphylococcus aureus, assay 1203
 Staphylococcus aureus, cefamandole 1326
 Staphylococcus aureus, cefazolin 1326
 Staphylococcus aureus, cefoxitin 1326
 Staphylococcus aureus, penicillin resistance 7304
 Staphylococcus, penicillins resistance, alkylsulphates/alkylarylsulphonates 8953
 Yersinia pseudotuberculosis, beta-lactam antibiotic resistance 4638

Penicillinase inhibitor,

alkylsulphates/alkylarylsulphonates, Bacillus licheniformis, penicillins resistance 8953
 alkylsulphates/alkylarylsulphonates, Staphylococcus, penicillins resistance 8953

Penicillinase-releasing protease,

Bacillus licheniformis 3312

Penicillinate,

(+/-)-methyl 6-epi-6-bromo- 607
 (-)-methyl 6-epi-6-bromobisnor- 607
 alkylation 6587

Penicillins,

3013 3034 3035 4733 4735 7411 9501 10221
 6beta-acylamino-6-alpha-alkoxy, antibacterial agent 2173
 + dicloxacillin, antibacterial agent 3030
 + nickel 9079
 alpha-haemolytic Streptococcus 4728
 aminoalkyl esters, antibacterial agent 2172
 anaerobic bacteria 3010
 antibacterial agent 593 1347 2175 2178 2969
 3005 3752 3753 3777 6546 7411 9032
 antibacterial agent/resistance 1302
 antibacterial agent, sensitivity test broth/urine 3009
 antibacterial agent, turbidimetry 8120
 Bacillus megaterium 2220
 bactericide 6553
 bacteriostat 6553
 Bacteroides melaninogenicus, beta-lactamase 4640
 Bacteroides oralis, beta-lactamase 4640
 binding proteins, Escherichia coli 4761 5034
 cephalosporin derivatives 578
 cephalosporins 579 2174
 cephem derivatives 8123
 chicken feed 9627
 Enterobacteriaceae 6557
 Escherichia coli 555
 Escherichia coli penicillin-binding proteins 5908
 fluorometric assay 7390
 milk, penicillinase 4192
 organic solvents, gas chromatography 2164
 partition coefficient, high-pressure liquid chromatography 10246
 Pasteurella multocida 6548
 Proteus morganii cephalosporinase 6879
 pyrolysis gas-liquid chromatography 5636
 resistance, Bacillus licheniformis, penicillinase, alkylsulphates/alkylarylsulphonates 8953
 resistance, Chromobacterium violaceum, beta-lactamase 3673
 resistance, Escherichia coli, beta-lactamase, R factor 8954

Subject index

Penicillins(Contd),

resistance, *Haemophilus influenzae*,
penicillinase assay 1203
resistance, *Klebsiella aerogenes*,
beta-lactamase, R factor 10122
resistance, *Pseudomonas aeruginosa*,
beta-lactamase 2102
resistance, *Serratia marcescens*,
beta-lactamase 3674
resistance, *Staphylococcus aureus* 4631 5534
resistance, *Staphylococcus aureus*,
beta-lactamase 5535
resistance, *Staphylococcus aureus*,
penicillinase assay 1203
resistance, *Staphylococcus hyicus* 9045
resistance, *Staphylococcus*, penicillinase,
alkylsulphates/alkylarylsulphonates 8953
Staphylococcus aureus penicillinase 7372
Staphylococcus hyicus 9045
structure, nuclear magnetic resonance
spectroscopy 3036
sulphoxides 4738
thio-beta-lactam, antibacterial agent 5679
tolerance, *Streptococcus sanguis* 8126

Penicillium,

acid-treated corn 2623
ammonium/potassium isobutyrate 1257
bakery dust 9172
barley seed, beer 7697
bean seed, seed treatment 1859
biological control, *Fusarium culmorum*, wheat
8653
biological control, *Rhizoctonia*, sugarbeet
4499
biomass/protein, ethanol 2428
biomass/protein, methanol 2428
cellulase, carboxymethylcellulose medium
3948
8-chloro-10,11-dihydrodibenz(b,f)(1,4)oxazepi-
ne transformation 4137
coal mine soil 2062 5479
corn 1804 7882 8635 9786
corn kernels 6217
cyclochlorotin 975
DDT degradation 9526
diaryl-pyridyl-imidazole methanes 4671
enzyme immobilization 2
fermented food 4190
fermented meat product 6082
food 7718
food, mycotoxins 8467
frozen food 6026
fuel tank, organic acids 4617
glucose dehydrogenase,
D-gluconic-delta-lactam 1435
hexadecane degradation, haptachlor 4624
imidazolyl-O,N-acetal derivatives 3704
latex paint film, surface disinfection 10092
lipase, blue cheese 6061
loganberry, post-harvest decay 6321
luteoskyrin 975
malt, beer gushing 5167
meat/meat product 8505
mouldy grains, animal feed 3415
multinuclear giant cells, tunicamycin 8196
mycelial pellet, Gompertz's law 3202
mycelianamide, butyrylcholinesterase
inhibitor 1427
mycotoxins 973
mycotoxins, animal mycotoxins 3427
mycotoxins, dairy product 224
mycotoxins, neutralisation, ethylene
oxide/methyl formate 4253
nuclease 3217
oxime esters 2148
Parthenium hysterophorus
rhizosphere/rhizoplane 3635
patulin, grape/grape juice/wine 7830
pistachio nut 5276
polycaprolactone degradation 1712

Penicillium(Contd),

polyethylene adipate-degrading enzyme 7647
prostaglandin beta-oxidation 9442
quaternary ammonium compound 2961
radiclonic acid 81
refrigerated food 9651
rice rhizosphere, pesticides 8916
rice seed 1880
road-building material 5507
rum distillery slops 7701
safflower, seed treatment fungicide 8838
Scots pine 2038
Scots pine seed 9997
sewage, dimethylselenide 4144
slime, fibreboard industry 10471
soil, cadmium 8018
soil, fungistasis 5482
soil, fungistasis, ethylene 2861
soil, growth factor 7682
soil, organic matter degradation 2864
soybean seed 4310
sterigmatocystin 7808
stored rapeseed 6326
strawberry post-harvest decay, fungicide
8760
sugars/sugar alcohols 5593
tomato juice, *Clostridium botulinum*/botulinum
toxin 3446
triazole derivatives 2940
waste orchardgrass soil 10040
wheat 6233
wheat post-harvest decay 342
wheat post-harvest decay, antifungal agent
9962
wheat rhizosphere 3636
yam post-harvest decay 6327
Penicillium adametzi,
condensed tannin degradation 3372
Penicillium amagasakiensis,
glucose oxidase, D-gluconic-delta-lactam
1435
Penicillium baarnense,
1,4-dihydroxy-2-methoxy-6-methylbenzene 886
Penicillium baghdadi,
curvularin 5148
Penicillium bilacinum,
enzymatically-active protein cell membrane
complex 5912
Penicillium brevi-compactum,
compactin, structure 632
food, acidified potato dextrose
agar/non-acidified chlortetracycline potato
dextrose agar 1591
mycophenolic acid, gas chromatography + mass
spectrometry 811
mycophenolic acid, *Penicillium stoloniferum*
fast-moving virus 521
Penicillium camemberti,
cheese 152
Penicillium cameronense,
epsilon-caprolactam + alkanediamine
derivatives 2149
epsilon-caprolactam + N-alkylalkylene diamine
reaction product 3126
Penicillium canadense,
dihydrocanadensolide 84
Penicillium caseicolum,
cheese 3390
lipase 5960
protease 9431
protease, cheese 7004
Penicillium chrysogenum,
7591
acylase, 7-aminocephalosporanic acid
derivatives 2207
choline sulphokinase 9375
cinnamyl phenols 532
culture 5164
esterase, cephamycin derivatives 10283

Subject index

- Penicillium chrysogenum**(Contd),
 esterase, cephem-4-carboxylic acid 7400
 glutaraldehyde 6509
 immobilisation 803
 iturin A, bacillomycin E/bacillomycin
 R/eumycin 5743
 light 4732
 N-nitroso-N-methylbiuret 5667
 penicillin 591 1346 2217 4739 5668 5669 6579
 10286
 penicillin, culture medium 590 2216
 penicillin G 592 9075
 penicillin, lipid/oil 6543
 penicillin, medium 9074
 soil fungistasis 7258
 soybean 9596
 Vega disinfectant 9232
- Penicillium citreo-viride**,
 citreoviridin 8568
 enzyme, plant cell wall degradation 6852
- Penicillium citrinum**,
 cholesterologenesis inhibitors, ML-236A,
 ML-236B, ML-236C 8431
 citrinin, copper 4795
 fennel rhizoplane, subamycin 2863
 food, acidified potato dextrose
 agar/non-acidified chlortetracycline potato
 dextrose agar 1591
 oil palm kernels 4220
 potato, rishitin/lyubimin 4495
 poultry feed, gentian violet 956
 soil, formalin fumigation 6453
 soil, nitrogen 2873
 soybean 5596
 sugars/sugar alcohols 5593
 toxins, barley, animal feed 5262
- Penicillium claviforme**,
 apple post-harvest decay 1967
 ribonuclease 7662
 sugarbeet post-harvest decay, Botrytis
 cinerea/Phoma betae 3544
- Penicillium commune**,
 imidazolylacetic acid amides 515
 phenyl-imidazolyl-fatty acid derivatives
 8078
 soil 2866
 thionosalicylic acid anilide derivatives
 3726
 triazole derivatives 2960
- Penicillium concavo-rugulosum**,
 chanoclavine 5125
 dihydrorugulovosine A 5125
 isochanoclavine 5125
 rugulovosine A 5125
 rugulovosine B 5125
- Penicillium corylophilum**,
 paper, fungicide 468
 paper, fungicide adaptation 4615
- Penicillium crustosum**,
 bicyclic polyoxymethylene-oxazolidines 471
 cowpea seed 1848
 monocyclic polyoxymethyleneoxazolidine 2090
 soil, ethylene 7252
- Penicillium cyaneo-tulvum**,
 patulin, culture medium 236
- Penicillium cycloptium**,
 barley seed 2687
 carbon-14 labelled penicillic acid 7831
 food, acidified potato dextrose
 agar/non-acidified chlortetracycline potato
 dextrose agar 1591
 frozen food 6026
 lipase 853
 mine rubberized ventilation tube 4180
 penicillic acid 9718
 pigeon excrement, stone degradation 4183
 river water 3134
 soil, ethylene 7252
 soybean 9596
- Penicillium decumbens**,
 pigeon pea rhizosphere 6422
 volatile odour compound 1695
- Penicillium digitatum**,
 amylase 4032
 benzimidazole resistance, plant protection
 7204
 biomass, potato starch waste medium 2430
 sec-butylamine 3709 3710
 cellulolytic enzyme 4032
 citrus post-harvest decay,
 1-[beta-(allyloxy)-2,4-dichlorophenethyl]-im
 idazole 3541
 Citrus post-harvest decay, fungicide 4441
 enzymes, animal feed 4032
 fungicide, plant protection 7206
 orange post-harvest decay, fungicide 6318
 pectolytic enzyme 4032
 post-harvest decay/vegetable post-harvest
 decay, hypobaric pressure 7183
 protein 2431
 protein/biomass 2429
 protein, potato starch waste medium 2430
 provitamin D 4032
 pyridine derivatives 2823
 satsuma mandarin post-harvest decay,
 fungicide DF-125 5400
 vitamin E group 4032
 xylanase 4032
- Penicillium diversum**,
 large cardomum 4224
- Penicillium duponti**,
 alpha-galactosidase 3273 8362
 oil palm kernels 4220
 protease, + ethylene-maleic acid linear
 copolymer 2497
- Penicillium egyptiacum**,
 pigeon pea rhizosphere 6422
- Penicillium ehrlichii**,
 wheat 6233
- Penicillium expansum**,
 2,5-dihydroxy-1,4-benzoquinones 8082
 antibiotic A23187 2239
 apple post-harvest decay 5397
 apple post-harvest decay, fungicide 8749
 apple post-harvest decay, phenolic compounds
 343
 benzene derivatives 2131
 bread/sponge cake, propionic acid
 preservation 9684
 alpha-bromo-p-methylacetophenone +
 1,3-dichloroacetone oxime acetate,
 industrial water system 10470
 3-bromoacetoxy tetrahydrofuran 533
 carbamoyloxy-benzamide derivatives 4691
 citrinin 7069
 1,3-dichloroacetone oxime acetate +
 beta-bromo-beta-nitrostyrene, industrial
 water system 2320
 food, acidified potato dextrose
 agar/non-acidified chlortetracycline potato
 dextrose agar 1591
 fungicide, plant protection 7206
 Gloeophyllum sepiarium oospolactone 2538
 guanidine derivatives 8041
 patulin 987 7069
 patulin, fruit/fruit products 8571
 patulin, grape/grape juice/wine 7830
 patulin, gamma-irradiation 3436
 patulin, vegetables/vegetable products 8571
 patulin, water activity 977
 pea, pisatin 6350
 Penicillium patulum 987
 Penicillium urticae, water activity 977
 pomegranate post-harvest decay 8756
 slimicide, industrial water system 3124
 soil fungistasis, theoretical colonization
 index 2862
 soybean 9596
 thiocyanate derivatives 2972

Subject index

- Penicillium expansum**(Contd),
trifluoromethyl
phenyl-3-(3',5'-dicyanophenyl)urea 2150
- Penicillium fellutanum**,
biological control, Rhizoctonia, sugarbeet
4499
- Penicillium frequentans**,
Leguminosae root/rhizosphere 2865
soil fungistasis, theoretical colonization
index 2862
soil, paraquat/diquat degradation 4602
- Penicillium funiculosum**,
cellulase, cellulose 5927
cellulase, cellulose degradation, sugar 5925
dextranase, dental plaque 4902
dextranase, dentifrice 10502
dextranase, dextran degradation 6980
emblic myrobolan post-harvest decay 4436
enzymatically-active protein cell membrane
complex 5912
large cardamon 4224
pigeon pea rhizosphere 6422
pineapple 5383
polyvinylchloride building sealant
degradation 4279
quaternary ammonium salt 470
soil fungistasis, theoretical colonization
index 2862
soil, nitrogen 2873
- Penicillium glaucum**,
blue cheese 6061
lipase, Cheddar cheese 7006
slimicide, industrial water system 3124
- Penicillium griseofulvin**,
enzymatically-active protein cell membrane
complex 5912
- Penicillium implicatum**,
oil palm kernels 4220
soil fungistasis, theoretical colonization
index 2862
- Penicillium islandicum**,
luteoskyrin 2631
- Penicillium italicum**,
acetylenic sulphones 512
benzimidazole resistance, plant protection
7204
carbonyloxy-benzamide derivatives 4691
citrus post-harvest decay,
1-[beta-(allyloxy)-2,4-dichlorophenethyl]-im-
idazole 3541
citrus post-harvest decay, fungicide 4441
satsuma mandarin post-harvest decay,
fungicide DF-125 5400
thiocyano xanthate derivatives 2972
trifluoromethyl
phenyl-3-(3',5'-dicyanophenyl)urea 2150
- Penicillium janthinellum**,
Gloeophyllum sepiarium oospolactone 2538
penicillopepsin 2489 2490 2491 2492 5963
penicillopepsin, structure 1667
soil fungistasis, theoretical colonization
index 2862
wheat 6233
- Penicillium javanicum**,
Curcuma caesia oil 5567
fennel rhizosphere, subamycin 2863
penicillin 8147
protease 8391
- Penicillium lanoso-coeruleum**,
penitrem A, toxin, weevil-damaged pecan nuts
9719
- Penicillium lapidosum**,
soil fungistasis, theoretical colonization
index 2862
- Penicillium lilacinum**,
biological control, Rhizoctonia, sugarbeet
4499
Curcuma caesia oil 5567
dextranase, dental plaque 4902
- Penicillium lilacinum**(Contd),
soil fungistasis, theoretical colonization
index 2862
- Penicillium martensii**,
river water 3134
- Penicillium miczynskii**,
wheat 6233
- Penicillium nigricans**,
griseofulvin, N-nitroso-N-methylbiuret,
ultraviolet irradiation 1377
pigeon pea rhizosphere 6422
soil fungistasis, theoretical colonization
index 2862
- Penicillium notatum**,
antibiotics 2170
enzymatically-active protein cell membrane
complex 5512
furancarabamic acid esters 2143
glucose oxidase 4093
iturin A, bacillomycin B/bacillomycin
R/eumycin 5742
nitroperhydropridodiazepine derivatives
2976
n-oxypridyl thiol aluminium derivatives 749
penicillin 6875 7591 10286
river water 3134
soil, organic matter degradation 2864
sugars/sugar alcohols 5593
- Penicillium ochra-chloron**,
3-bromoacetoxy tetrahydrofuran 533
heavy metal tolerance 8930
thiocyano xanthate derivatives 2972
trifluoromethyl
phenyl-3-(3',5'-dicyanophenyl)urea 2150
- Penicillium oxalicum**,
large cardamon 4224
oxaline, C13 nuclear magnetic resonance
spectroscopy 5127
soil fungistasis, theoretical colonization
index 2862
- Penicillium paraherquesi**,
verruculogen 1812
- Penicillium patulum**,
biological control, Phytophthora cryptogea,
squash 372
biological control, Rhizoctonia solani,
cotton 372
carbon-14 labelled patulin 7070
griseofulvin 8171
patulin, gamma-irradiation 3436
toxins, barley, animal feed 5262
- Penicillium piscarium**,
fumitremorgin B 6147
paraldol 3721
verruculogen 6147
- Penicillium purpurogenum**,
cellulase 7613
Curcuma zedoaria extract 3695
forest soil, Phytophthora cinnamomi 7260
alpha-glucosidase 847
guanidine derivatives 8041
paper degradation 2551
- Penicillium raistrickii**,
soil fungistasis, theoretical colonization
index 2862
- Penicillium rivolii**,
patulin, culture medium 236
- Penicillium roqueforti**,
3,5-dihalo-4-hydroxyacetophenones 8076
blue cheese 925 6061 7749
carboxypeptidase 9367
cheese 3390
cyanodithioimidocarbonic acid derivatives
1261
dithiocarbamate derivatives 6526
enzymes, food 134
isofumigaclavine A 6008
isofumigaclavine A, blue cheese 926
isofumigaclavine B, blue cheese 926
beta-ketoacyl decarboxylase 1656

Subject index

Penicillium roqueforti(Contd),

lipase, Cheddar cheese 7006
lipids, cheese 9566
PR toxin 3437 6008
PR toxin, dairy product 224
PR toxin, transcription 1810
protease 7654
protease, cheese 7004
river water 3134
roquefortine 6008
roquefortine, blue cheese 926

Penicillium rubrum,

culture filtrate, leaf litter soil fungi 10051
food, acidified potato dextrose agar/non-acidified chlortetracycline potato dextrose agar 1591
rubratoxin 3438 4268 6145
rubratoxin, lipid 9720
rubratoxins 8573
soil, formalin fumigation 6453

Penicillium rugulosum,

Rugulosin 2431

Penicillium spiculisporum,

spiculisporic acid-open-ring acid 5893 5894

Penicillium spinulosum,

frozen food 6026

Penicillium steckii,

dihalo-sulphonate derivatives 7979
frozen food 6026
halocyanoacetamide + haloacetic ester 1496
Pellicularia sasakii/Pellicularia filamentosa cell wall-lysing enzyme complex 4072

Penicillium stiptitum,

antibiotic PSX-1, antitumour antibiotic 5996

Penicillium stoloniferum,

statolon 518

Penicillium stoloniferum fast-moving virus,

antiviral agent 521

Penicillium tardum,

soil fungistasis, theoretical colonization index 2862

Penicillium terlikowskii,

2,5-dihydroxy-1,4-benzoquinones 8082

Penicillium turbatum,

antibiotic A-26771, antibacterial agent/antifungal agent/antiviral agent 1390

Penicillium urticae,

food, acidified potato dextrose agar/non-acidified chlortetracycline potato dextrose agar 1591
griseofulvin 4266
griseofulvin, deuterium nuclear magnetic resonance spectroscopy 3070
patulin 4266
patulin, cider, activated charcoal 1809
patulin, fruit/fruit products 8571
patulin, gas-liquid chromatography 7071
patulin, vegetables/vegetable products 8571
soybean 9596

Penicillium vermiculatum,

3-bromoacetoxy tetrahydrofuran 533
thiocyano xanthate derivatives 2972
trifluoromethyl phenyl-3-(3',5'-dicyanophenyl)urea 2150
vermiculine, cytotoxin 5999

Penicillium viridi-cyclosum,

Leguminosae root/rhizosphere 2865

Penicillium viridicatum,

food, acidified potato dextrose agar/non-acidified chlortetracycline potato dextrose agar 1591
ochratoxin A, stored rice 9690
rubrosulphin 6000
soybean 9596
toxin, animal feed 1799
toxins, barley, animal feed 5262
viomellein 6000

Penicillium viridicatum(Contd),

viopurpurpurin 6000
viridicatumtoxin, structure 2635
xanthomegnin 6000

Penicillium vitale,

catalase 828
enzymes 824

Penicillium waksmanii,

biological control, Bacillus larvae, honeycomb 1212
frozen food 6026

Penicillium wortmanni,

beta-D-xylosidase 2505

Penicilloate,

D-benzyl-, structure 608

Penicillopepsin,

Penicillium janthinellum 2489 2490 2491 2492 5963

Penicillium janthinellum, structure 1667

Penimocycline,

high-performance liquid chromatography 2179

Peniophora gigantea,

biological control, Fomes annosus, pine 2838
Fomes annosus, wood 6405
Stereum sanguinolentum, wood 6405

Peniophora mutata,

Scots pine degradation 10022

Peniophora sanguinea,

cellulose pulp 1707

Penitrem A,

Penicillium lanoso-coeruleum, weevil-damaged pecan nuts 9719

Pennisetum,

resistance, Panicum mosaic virus-St. Augustine decline strain 6333

Pennisetum americanum,

+ Spirillum lipoferum, nitrogen fixation 2893

Claviceps microcephala 1021

Sclerospora graminicola 1021

Pennisetum glaucum,

resistance, Panicum mosaic virus-St. Augustine decline strain 6333

Pennisetum typhoides,

Cercospora fusimaculans, culture medium 1022

Claviceps microcephala 2692

Claviceps fusiformis 8643

Ephelis oryzae 1023

Helminthosporium sacchari 1024

Pseudomonas 4316

Pyricularia penniseti 1025

resistance, Sclerospora graminicola 2784

rhizosphere mycoflora, seed mycoflora 4574

Sclerospora graminicola 1021 1026

seed, Aspergillus flavus 1838

Sphacelia sorghi 1027

virus disease 1869

Pennisetum typhoides,

gamma-irradiation, aflatoxin 3432

Pentachloronitrobenzene,

see also Terraclor and Quintozene

Fusarium oxysporum, wheat 2801

Plasmodiophora brassicae, crucifers 2811

Sclerotium rolfsii, iris 9967

Sclerotium rolfsii, peanut 9960

seed dressing, Rhizobium, cowpea 2029

seed treatment, Fusarium culmorum/Drechslera sorokiniana/Rhizoctonia solani, oat 1120

seed treatment, Rhizoctonia solani, cotton 8836

seed treatment, Rhizoctonia solani, sugarbee 2034

seed treatment, Sclerotium rolfsii, sugarbee 2034

Pentachlorophenolate,

fungal adaptation, paper 4615

Pentachlorophenol,

antibacterial agent/antifungal agent, water microorganisms 9220

degradation, soil bacteria 8919

Subject index

2,4-Dichlorophenol(Contd),

degradation, soil *Pseudomonas* 17082
 milk/milk product microbiology 1725
 monochloroacetate esters, preservative 4614
 soil bacteria 8919
 wastewater, microbial degradation 688
Anticme contorta,
 mycorrhiza 8840
Antidecanoic acid,
Escherichia coli triglyceride 5888
Antanal,
 fungi, wheat seed 407
Antanol,
 wine yeasts, alcohol dehydrogenase 3358
Antenoinic acid,
 2-amino-5-phosphono-3-, *Streptomyces*
plumbeus 5026
Antopyranic acid,
Streptomyces griseochromogenes 812
Streptomyces griseochromogenes, blasticidin S
 1407
Antstemon angustifolius,
 belladonna mottle virus 5363
Antstemon laevigatus,
 belladonna mottle virus 5363
Antulose,
 D-deoxy-D-threo-, *Streptomyces hygroscopicus*,
Mycobacterium avium 5728 5729
Ant-pentyl-4-quinolinol,
 marine *Pseudomonas*, antibacterial agent 6544
Antper,
 broad bean wilt virus 8713
Cladosporium oxysporum 1000
Corynebacterium michiganense 323
 leaf test, potato aucuba mosaic virus 4401
Leveillula taurica, auxins 9952
Phaeoramularia capsicola 2753
Phytophthora capsici 9879
Phytophthora palmivora 3506
 potato virus Y 1059 6304
 resistance, curly top virus 9939
 resistance, tobacco etch virus 8776
 seed, *Aspergillus flavus* 1838
 tobacco etch virus 1936
Verticillium dahliae 4370
Xanthomonas vesicatoria, triazinedione
 derivatives 1119
Antper leaf spot,
Leptosphaerulina crassiasca, peanut 6193
Antper spot,
Leptosphaerulina briosiana, alfalfa 1006
 2393
Antper veinial mottle virus,
 chilli, resistance 5410
Antpermint,
Verticillium dahliae 9885
Antpsidine,
 desacyl-, pepsidine C hydrolysis, *Bacillus*
pumilus 4047
 desacyl valyl-, pepsidine C hydrolysis,
Bacillus pumilus 4047
Antpsidine C,
 hydrolysis, *Bacillus pumilus*,
 desacyl-pepsidine/desacyl valyl-pepsidine
 4047
Antpsidine hydrolase,
Bacillus pumilus 9426
Antpsin,
 bovine, cheese Cheddar 4206
Antpsatin,
Streptomyces argenteolus 6836 2445
Streptomyces testaceus 6836 2445
Antpsidase,
Aspergillus oryzae, miso 6018
Aspergillus oryzae, soy sauce 5183
Aspergillus sojae, soy sauce 5183
Cladosporium 857

Peptidase(Contd),

Streptococcus lactis, dairy product 9564
Endo-Peptidase,
Streptococcus diacetylactis 6908
Peptide,
 alanine-containing derivatives, antibacterial
 agent 6506
 alanine-containing derivatives, *Bacillus*
 thiaminolyticus germination inducer 6506
 antibacterial agent 7329
 azomethine-forming lysine residue,
Pseudomonas putida
 2-keto-3-deoxy-6-phosphogluconic aldolase,
 structure 3287
Candida albicans, antifungal agent 1234
 cyclodepsi, beauverolide H, *Beauveria*
bassiana 6834
 cyclodepsi-, beauverolide I, *Beauveria*
bassiana 6834
 cyclodepsi-, destruxins, *Metarrhizium*
anisopliae 5896
 derivatives, antibacterial agent 7329
 gamma-glutamyl-, *Corynebacterium glutamicum*,
 L-glutamic acid 8326
 glyco-, Rhizopus, structure 2427
Lactobacillus plantarum, *Streptomyces*
 D-alanyl-meso-2,6-diaminopimelic acid
 endopeptidase 4063
 penicillin-binding, *Bacillus subtilis*
 D-alanine carboxypeptidase 6835
 penicillopepsin, *Penicillium janthinellum*
 2489 2490 2491 2492
 poly-, bacterial, + immunoglobulin 3949
 poly-, microbial 7602
 poly-, *Rhodospirillum rubrum* 4039
Pseudomonas aeruginosa exotoxin A 7857
 tri-, N-1409, *Streptomyces plumbeus* 8325
Peptide antibiotics,
Bacillus 9054
Peptidelipid,
Bacillus circulans 5028
Peptidoglycan,
Clostridium 4040
Escherichia coli 2426
Pseudomonas aeruginosa 2426
Peptidyl factor,
Saccharomyces cerevisiae, amino acids 9338
Peptidyltransferase,
Escherichia coli, turimycin 9158
Peptococcus,
 antibiotics 2994
 blood agar medium 3956
 cephalosporins 3010
 josamycin 640
 josamycin/rosamicin/clindamycin 2190
 modified plate holding system,
Propionibacterium, modified plate holding
 system 10547
 penicillins 3010
 preservation 4703
 roll-streak method 1556
 thiamphenicol/chloramphenicol 9096
Peptococcus asaccharolyticus,
 antibiotic sensitivity testing 2165
Peptococcus prevotii,
 antibiotic sensitivity testing 2165
Peptone,
 fish, culture medium 9252
Peptone-starch-dextrose agar,
Haemophilus vaginalis 3976
Peptostreptococcus,
 antibiotics 2994
 blood agar medium 3956
 cephalosporins 3010
 josamycin 640
 penicillins 3010
 preservation 4703

Subject index

- Peptostreptococcus (Contd),**
 thiamphenicol/chloramphenicol 9096
 tinidazole/metronidazole 8069
- Peptostreptococcus anaerobius,**
 antibiotic sensitivity testing 2165 10232
 sodium polyanethol sulphionate disc test 3992
- Peptostreptococcus elsdenii,**
 coenzyme A transferase 1680
- Peptostreptococcus intermedius,**
 antibiotic sensitivity testing 2165
- Peptostreptococcus productus,**
 urease assay 8271
- Peracetic acid,**
 aerosol, hospital hygiene 3912
 cosmetic preservation 4698
 disinfectant, tonometer 3917
 Mycobacterium bovis 3679
 Mycobacterium tuberculosis 3679
 pharmaceutical cream sterilisation 2979
 sewage effluent disinfection 5783
- Percolating filter,**
 vegetable industry effluent treatment 6699
- Percolator,**
 soil 423
- Perecol,**
 Phytophthora palmivora, cacao 6359
- Perenox,**
 Phytophthora nicotianae, mandarin orange 2724
- Perforation lysis,**
 Cochliobolus sativus conidia, soil 6427
 Thielaviopsis basicola chlamydospores, soil 6427
- Perfusion,**
 charcoal, amanitin 4264
- Pericardite vaccine,**
 duck 669
- Periconia,**
 jute seed, seed dressing fungicide 2825
 soil 3632
- Periconia circinata,**
 Columbus grass 4345
 Johnsongrass 4345
 Sorghum bicolor 4345
- Periconia manihoticola,**
 cassava 6258
- Periconia parasitica,**
 neem tree 7155
- Peridermium,**
 Japanese stone pine 2843
- Perimycin A,**
 Streptomyces coelicolor, structure 3816
- Periodontal disease,**
 alexidine dihydrofluoride 1533
- Periphyton sampler,**
 water 1497
- Peristrophe bicalyculata,**
 Colletotrichum crossandrae 1072
- Periwinkle,**
 corn stunt Spiroplasma 9782
 Phytophthora parasitica 8714
- Peronospora,**
 aniline derivatives, plant protection 6365
 ethylimidazole derivatives, plant protection 8814
 furoic amide derivatives, plant protection 8813
 grapevine, copper fungicide 4504
 grapevine, fungicide 4483
 plant disease 4298
 triazino-benzimidazole derivatives, plant protection 3588
- Peronospora arborescens,**
 poppy 3520
- Peronospora conglomerata,**
 Geranium lucidum 1060
 Geranium nepalense 1060
- Peronospora destructor,**
 onion 4291 9877
- Peronospora destructor (Contd),**
 onion,
 N-tetrachloroethyl-thio-4-cyclohexene-1,2-di-carboximide 8709
- Peronospora farinosa,**
 spinach, resistance 7958
 sugarbeet 4367
- Peronospora manshurica,**
 soybean 5312 6196 9769
- Peronospora parasitica,**
 cabbage, resistance 2787 4459
 crucifer 9861
- Peronospora pisi,**
 pea 9766
 pea, resistance 4470
- Peronospora sparsa,**
 rose 8725
- Peronospora tabaci,**
 phosphonate derivatives, plant protection 8809
- Peronospora tabacina,**
 tobacco, resistance 8778
- Peronospora trifoliorum,**
 alfalfa 9751 9752
- Peronospora viciae,**
 pea 4367
- Peronospora viticola,**
 copper fungicide, plant protection 8807
- Peronosporaceae,**
 plant disease 4298
- Peroxidase,**
 Aspergillus flavus, aflatoxin 5045
 Aspergillus parasiticus, aflatoxin 5045
 immobilization 4057
 Phellinus igniarius 1668
- exo-Peroxidase,**
 Inonotus radiatus 6909
- Persea americana,**
 Alternaria citri post-harvest decay 9909
 Colletotrichum post-harvest decay 9909
 Diplodia natalensis post-harvest decay 9909
 Phytophthora cinnamomi 5348 5349 6240
- Persistent infection cell culture test,**
 antiviral agent 3711
- Persoonia juniperina,**
 phytophthora cinnamomi 8597
- Pertussis,**
 see Bordetella pertussis
- Pertussis toxin,**
 4271
- Pestalotia,**
 blueberry post-harvest decay 5398
 endopolygalacturonase/pectinmethylesterase 1631
 Streptomyces volatile compounds 8986
- Pestalotia dictyeta,**
 plant hosts 1003
- Pestalotia hartigii,**
 beech 1155
- Pestalotia jodhpurensis,**
 plant hosts 1003
- Pestalotia lapagericola,**
 Curcuma caesia oil 5567
- Pestalotia longisetula,**
 strawberry 4419
- Pestalotia macrotricha,**
 guanidine derivatives 8041
- Pestalotia malicola,**
 plant hosts 1003
- Pestalotia menezesiana,**
 grape berries 2742
- Pestalotia neglecta,**
 plant hosts 1003
- Pestalotia osyridia,**
 plant hosts 1003
- Pestalotia psidii,**
 guava post-harvest decay, homeopathic drugs 9915
 guava post-harvest decay, thiabendazole 2767

Subject index

- Pestalotia theae,**
plant hosts 1003
- Pestalotia versicolor,**
plant hosts 1003
- Pestalotia zonata,**
plant hosts 1003
- Pestalottiopsis,**
coconut palm 4382
- Pestalottiopsis neglecta,**
Mimosa hexandra 2749 4395
- Pestalottiopsis versicolor,**
Aleo vera 1837
sapota 2774
- Pesticide,**
estuarine water bacteria 4884
halogenated anilines, degradation, soil
Paracoccus 8035
heptachlor, hexadecane degradation, fungi
4624
hydrolysis, immobilised bacterial hydrolase
5954
microbial degradation 112 9527
microbial degradation, food 1758
milk/milk product microbiology 1725
mycorrhizal fungi 8917
nitrogen fixation, Rhizobium + broad bean
6443
phenylamide, river water, microbial
degradation 6023
phorate, degradation, Aspergillus niger 1711
phorate, degradation, Bacillus megaterium
1711
polymerization, Rhizoctonia praticola phenol
oxidase, soil 7278
rice rhizosphere microorganisms 8916
salt marsh microorganisms 10072
soil, Fusarium solani, bean 10073
soil microorganisms 10071
- Petal blight,**
Ovulinia azaleae, azalea, fungicide 8800
- Petalite,**
fungal degradation 905
- Petri dish,**
multi-medium 2359
quadratic 9253
quadratic, bacteriology 760
- Petroleum,**
see also Oil
Aeromonas 7291
Azotomonas 7291
bactericide/fungicide 7288
bactericide/fungicide, dithiocarbamate
derivatives 6526
Brevibacterium 7291
degradation, estuarine bacteria, enrichment
medium 7290
degradation, estuarine microorganisms 478
degradation, estuarine water microorganisms
1186
degradation, estuarine water/sediment
bacteria, numerical taxonomy 10109
degradation, marine bacteria 480 10111
degradation, sea water bacteria 4886
microbial degradation 1184
microorganisms, culture apparatus 1539
Mycococcus 7291
Protaminobacter 7291
sea water, microbial degradation 1185 3661
sea water microorganisms 5004
secondary recovery, microorganisms 5514
waste, soil bacteria 6460
- Petroleum asphalt,**
fungi 5507
- Petroleum wastewater,**
microbial treatment 691
- Petroselinum crispum,**
celery mosaic virus 3499
Leveillula lanuginosa 7926
- Petunia hybrida,**
+ Rhizobium, nitrogen fixation 10063
- Petunia hybrida(Contd),**
petunia mottle virus 7160
tomato bushy stunt virus petunia asteroid
mosaic strain, soil 7927
- Petunia mottle virus,**
Petunia hybrida 71.
- Peucedanum grande,**
Puccinia bullata 2.62
- pH,**
soil, nitrogen fixation, Rhizobium meliloti +
alfalfa 10065
soil, nitrogen fixation, Rhizobium trifolii +
red clover 10065
- pH electrode,**
fermenter 5161
- Phacidin,**
antifungal agent 1 398
- Phadebact Streptococcus test,**
Streptococcus group A 10594
Streptococcus group B 10594
Streptococcus group C 10594
Streptococcus group G 10594
- Phaeocryptopus gaeumannii,**
Douglas fir, cuprous oxide 1126
- Phaeocytospora oryzae,**
corn 6214
- Phaeoisariopsis griseola,**
bean 6184
- Phaeolus schweinitzii,**
Douglas fir 3607
- Phaeoramularia capsicicola,**
pepper 2753
- Phage,**
aflatoxin B1 1802
antibacterial agent, plant protection 3593
Aspergillus parasiticus 1802
assay, virus air pollution, wastewater
treatment 7484
Azotobacter, soil 4562
Azotobacter vinelandii, alginate
depolymerase, alginate assay 3257
Bacillus-lysing, soil 8873
Bacillus, soil 429
cheese starter 154
Clostridium botulinum, toxin 244
concentration, polyethylene glycol 6803
Erwinia amylovora, apple 5342
Escherichia coli, plaque formation inhibitor,
desdanine 5730
floating loop replica plating 9254
lactic streptococcal, cheese factory 3389
Lactobacillus bulgaricus, medium 151
Lactobacillus helveticus, medium 151
Lactobacillus lactis, phage 151
polyethylene glycol precipitation 7588
quantitative electron microscopy, mass,
molecular weight 7587
resistance, Streptococcus cremoris, cheese
5218
river water 9222
Streptococcus cheese starter, lysogenic
strain 2574
Streptococcus cremoris 4198
Streptococcus cremoris, cheese 4199
Streptococcus lactis 4198
Streptococcus lactis, cheese 4199
Streptococcus, sewage, enrichment medium
9202
Streptococcus thermophilus, medium 151
water, pilot treatment plant 10473
Xanthomonas pruni, peach 1906
- Phage 95,**
induced lytic enzyme, Pseudomonas aeruginosa
2481
- Phage BPPX,**
Bacillus, soil 429
- Phage carrier state,**
Streptococcus cremoris 7745
- Phage K13,**
Bacillus, soil 429

Subject index

- Phage lambda,**
DNA, *Thermus aquaticus* endo-nuclease 6907
rimantadin 1244
- Phage MS-2,**
+ bentonite, chlorine 6519
water, foam fractionation 2325
- Phage phi6,**
long-chain alcohols 5585
- Phage phi23-1-a,**
long-chain alcohols 5585
- Phage phiX174,**
ozone/ozone + olefin, air 8204 8205
RF DNA, *Thermus aquaticus* endo-nuclease 6907
- Phage-resistant *Streptococcus cremoris*,**
cheese 5219
- Phage-resistant *Streptococcus lactis*,**
cheese 5219
- Phage T1,**
air pollution, high-vacuum steam sterilizer 3735
formaldehyde 5523
resistance, formaldehyde 5523
- Phage T2,**
bright-field electron microscopy 5827
DNA, molecular weight, fluctuation spectroscopy 2362
formaldehyde 5523
resistance, formaldehyde 5523
soil, wastewater disposal 4606
- Phage T3,**
formaldehyde 5523
resistance, formaldehyde 5523
rimantadin 1244
- Phage T4,**
5-iodouracil 5590
rimantadin 1244
- Phage T7,**
water 3127
- Phage typing,**
Micrococcus 6789
Mycobacterium 3182
Mycobacterium bovis 3183
Mycobacterium kansasii 3184
Mycobacterium tuberculosis 3185 3186 3187 3188
Pseudomonas aeruginosa 4962
Salmonella enteritidis 777
Salmonella heidelberg 7574
Salmonella senftenberg 6788
Salmonella typhimurium 8284
Salmonella typhimurium, chlortetracycline turkey feed 7041
Staphylococcus aureus 9285
Staphylococcus epidermidis 6789 10592
Vibrio cholerae 8289
- Phagocytosis,**
Pseudomonas aeruginosa, rabbit polymorphonuclear leukocytes, antibiotics 2998
- Phagolysate,**
Pseudomonas 5850
- Phakopsora pachyrhizi,**
bean 6201
Centrosema pubescens 6201
lablab bean 6201
Leguminosae 4312
lima bean 6201
runner bean 6201
soybean 4312 6196 6201
- Phalaris arundinacea,**
Helminthosporium catenarium 2699
sewage lagoon effluent irrigation, coliforms 4607
- Phalsa,**
Cercospora greviae, *Cephalosporium roseo-griseum* 1073
Pasteurella greviae, *Alternaria* 1073
Phoropsis pustulata 1836
- Phellan,**
Fusarium oxysporum 4484
- Phanerochaete chrysosporium,**
lignin degradation 419
maple chip piles 421
- Pharmaceutical,**
aseptic container 2984
aseptic filling 2985
fungicide, imidazole derivatives 8079
gelatin, quality control, membrane filtration 9022
immobilized microbial enzymes 5039
gamma-irradiation sterilisation, microorganisms 2156
microorganisms/quality control 2163
ointment, microorganisms 5615
ointment, quality control 5615
preservation, magnesidin 3810
Pseudomonas aeruginosa, selective medium 3192
quality control 3744 9020 9021
sterilisation, peracetic acid 2979
sterility testing 5604
water purification 9218
- Pharmaceutical glassware,**
sterilisation, hot air/infrared radiation 6534
- Pharmaceuticals,**
membrane filtration sterilisation 10213
- Phase partition,**
Micrococcus lysodeikticus membrane protein, cytochrome 2436
- Phaseollin,**
bean, *Botrytis cinerea* 3460
bean, *Colletotrichum lindemuthianum* 8787
Colletotrichum lindemuthianum, bean 6349
- Phaseolotoxin,**
Pseudomonas phaseolicola 7858 8586
[2-serine]-, *Pseudomonas phaseolicola* 8586
- Phaseolus,**
cucumber mosaic virus 257
nodulation 2078
resistance, *Fusarium solani* 9926
- Phaseolus acutifolius,**
Sclerotinia sclerotiorum 8605
- Phaseolus atropurpureus,**
nodulation 2078
- Phaseolus aureus,**
+ *Rhizobium*, nitrogen fixation, proteins 2883
+ *Rhizobium*, nodulation, nitrogen fixation 7275
+ *Rhizobium phaseoli*, nitrogen fixation 7274
Curvularia eragrostidis 1010
malformin assay 4811
mungbean yellow mosaic virus, whitefly 1844
Rhizobium, rhizosphere streptomycetes 2881
seed, *Aspergillus flavus* 1838
yellow mosaic virus 2673
- Phaseolus calcaratus,**
nodulation 2078
- Phaseolus coccineus,**
Phakopsora pachyrhizi 6201
- Phaseolus lunatus,**
golden mosaic, whitefly 5303
nodulation 2078
Phakopsora pachyrhizi 6201
Phytophthora phaseoli 260
- Phaseolus mungo,**
+ *Rhizobium*, nitrogen fixation 2080
+ *Rhizobium*, nodulation, antifungal agent 3649
+ *Rhizobium*, nodulation, nitrogen fixation 7275
Cercospora 2674
Erysiphe polygoni 3548
Erysiphe polygoni, resistance 3548
mungbean yellow mosaic virus, whitefly 1844
Protomycopis patellii 4302
Rhizobium, rhizosphere streptomycetes 2881
seed, *Aspergillus flavus* 1838
southern bean mosaic virus 7869

Subject index

Phaseolus munge(Contd),

yellow mosaic virus 2673

Phaseolus radiatus,

nodulation 2078

Protomycopsis patelii 4302

Phaseolus vulgaris,

+ Rhizobium, nitrogen fixation 447

+ Rhizobium phaseoli, nitrogen fixation 5491 8901

Agrobacterium tumefaciens 6182

Alternaria alternata 9755

bean common mosaic virus 6177

bean curly dwarf mosaic virus 6178

bean golden yellow mosaic virus 5302

bean mild mosaic virus 6179

bean yellow mosaic virus 1831

bean yellow stipple virus 6180

bean yellow stipple virus, electron microscopy 7868

beet curly top virus, latex flocculation assay 10628

Colletotrichum lindemuthianum 4288 6183 9756

Colletotrichum lindemuthianum, biological control, Colletotrichum 1999

Colletotrichum lindemuthianum, fungicide 384

Colletotrichum lindemuthianum, phaseollin 6349 8787

cucumber mosaic virus 257

dried, mycoflora 9595

Erwinia carotovora 258 9754

Erysiphe polygoni, phthalimide derivatives 2815

fungus stem rot 7870

fungicide seed treatment 7990

Fusarium solani 8604

Fusarium solani, kievitone 8786

Fusarium solani, soil, fungistasis 9757

Fusarium solani, soil pesticide/herbicide 10073

kievitone, Aphanomyces euteiches 2000

kievitone, Fusarium solani 2000

kievitone, Rhizoctonia solani 2000

lectins, + Rhizobium, nitrogen fixation 8899

microbial disease 4288

microbial diseases 1842

mungbean yellow mosaic virus 4294

nodulation 2078

passionfruit woodiness virus 1831

pea leaf roll virus 2667

Phaseisariopsis griseola 6184

Phakopsora pachyrhizi 6201

phaseollin, Botrytis cinerea 3460

potato virus 3 8716

potato virus M 324

proteinase inhibitor, Fusarium

solani/Fusarium culmorum/Fusarium

avenaceum/Botrytis cinerea 2792

Pseudomonas mors-prunorum, hypersensitive response 8602

Pseudomonas mors-prunorum lipopolysaccharide 2519

Pseudomonas phaseolicola 1843 4290 7111

Pseudomonas phaseolicola, antibacterial agent 6376

Pseudomonas phaseolicola, antibacterial seed treatment 6379

Pseudomonas phaseolicola, hypersensitive response 8602

Pseudomonas phaseolicola phaseolotoxin 7858

Pseudomonas phaseolicola, phaseolotoxin/[2-serine-]-phaseolotoxin 8586

Pseudomonas phaseolicola, streptomycin seed treatment 406

Pythium aphanidermatum, soil 2069

Pythium myriotylum, soil 2069

Pythium ultimum, soil 2069

Ramularia phaseoli 2670

resistance, Colletotrichum lagenarium 7961

Phaseolus vulgaris(Contd),

resistance, Colletotrichum lindemuthianum 3547 7961

resistance, Fusarium solani 8763 8764 9926

resistance, Pseudomonas phaseolicola 1978

resistance, Pythium ultimum 8765

Sclerotinia sclerotiorum 8605

Sclerotinia sclerotiorum, pectolytic enzymes 4303

Sclerotinia sclerotiorum, thioureidobenzene phosphates 2014

seed, Aspergillus flavus 1838

seed, fungi 4301

seed, fungi, fungicide 6355

seed, fungi, seed treatment 1859

soybean mosaic virus, assay 7109

Stagonospora boltshauseri 2671

tobacco mosaic virus 1831

tobacco mosaic virus, sodium dodecyl

sulphate/triton X/Tween 80 5435

tobacco mosaic virus, virus-infection

stimulating factor 8737

tobacco necrosis virus 1831

tobacco necrosis virus, Ditylenchus dipsaci

7110

tobacco ringspot virus 1831

tobacco streak virus 1831

tomato bushy stunt virus 1831

Uromyces appendiculatus 4288

Uromyces appendiculatus, BAS 3170 F 1109

Uromyces appendiculatus, 2-iodobenzenilide 3580

Uromyces phaseoli, aminomethylenemalononitrile derivatives 3578

Uromyces phaseoli, antibiotic A-2315 623

Uromyces phaseoli, cold treatment 9949

Uromyces phaseoli, ethylene 9758

Uromyces phaseoli, fungicide 2798

Uromyces phaseoli, phthalimide derivatives 2815

Uromyces phaseoli, thioallophanate derivatives 391

white clover mosaic virus 1831

Xanthomonas phaseoli 4288 7111 8503

Xanthomonas phaseoli, antibacterial agent 4522

Phellinus,

volatile odour compound 1695

Phellinus abietis,

mannanase 8372

alpha-mannosidase 8372

Phellinus igniarius,

peroxidase 1668

volatile odour compound 1695

Phellinus isabellinus,

cellulose pulp 1707

Phellinus laevigatus,

volatile odour compound 1695

Phellinus pini,

pine 9996

Phellinus pomaceus,

3,14-bihispidinyl 8430

hispidin 8430

Phellinus rimosus,

trees 9996

Phellinus robustus,

trees 9996

Phellinus torulosus,

trees 9996

Phellinus tremulae,

volatile odour compound 1695

Phellinus weirii,

bigleaf maple 7232

Douglas fir 1124 7232

grand fir 7232

hemlock 1124

lodgepole pine 7232

mountain hemlock 7232

red alder 7232

Subject index

- Phellinus weirii**(Contd),
 Sitka spruce 7232
 soil 1124
 western hemlock 1124 7232
 western larch 7232
 western red cedar 1124 7232
 western white pine 7232
- Phenalkyl alcohol**,
 + halogenated phenoxyphenol, antibacterial agent 10156
- Phenanthrene**,
 degradation, *Aeromonas* 2552
 degradation, marine bacteria 480
 derivatives, antiviral agent 525
 marine bacteria 479
 microbial degradation 1708
 petroleum wastewater, microbial treatment 691
- Phenanthridinone**,
 derivatives, antiviral agent 525
- 1,10-Phenanthroline**,
 + nalidixic acid/piromidic acid, *Escherichia coli* 12146
 antibacterial agent/antifungal agent, hydrocarbon/industrial fluid 475
- Phenazine**,
 derivative, *Pseudomonas aureofaciens* 4036
 derivative, *Streptomyces luteoreticuli* 4036
- Phenethyl alcohol**,
Bacillus cereus, electron microscopy 1218
Bacillus megaterium, electron microscopy 1218
Streptococcus faecalis, electron microscopy 1218
- Phenethylamine polymer**,
 antibacterial agent/antifungal agent 10191
- Pheniphora gigantea**,
 cellulose pulp 1707
- Phenols**,
 + acetoacetic acid esters,
 fungicide/bactericide 2133
 bacterial degradation 9528 9529
 bactericide 4653
 bacteriostat, toilet bowl 4891
 degradation, activated sludge microorganisms 8216
 degradation, *Pseudomonas putida* 3368
 degradation, *Rhizobium* 6021
 derivatives, antibacterial agent/antifungal agent 531
 disinfectant 496
 disinfectant, bacterial resistance 1192
 petroleum wastewater, microbial treatment 691
 plant, *Trichoderma lignorum* 6508
 polychloro parathion, fungicide 1235
 polymerization, *Rhizoctonia praticola* phenol oxidase 3305
 vaccinia virus 6736
 variola virus 1242
 viricide 1241
 wastewater, nitrification, denitrification 6711
- Phenol oxidase**,
Rhizoctonia praticola, phenols polymerization 3305
 soil *Rhizoctonia praticola*, pesticide polymerization 7278
Sporotrichum pulverulentum, lignin degradation 2052
- Phenolic acid**,
 derivatives, methylation, *Lentinellus* 8432
 derivatives, methylation, *Lentinus* 8432
- Phenolic compound**,
 apple, post-harvest decay resistance 343
 strawberry, *Fythium irregulare*/*Rhizoctonia solani*/*Alternaria alternata* 1952
 tomato, resistance, *Verticillium albo-atrum* 337
 wine yeasts 5179
- Phenolic disinfectant**,
 disinfectant testing 726
 laundry washing machine sanitation 4892
 viricide 4673
- Phenolic preservative**,
 bactericide 4653
- Phenoloxidase**,
Schizophyllum commune, benzidine 1669
 soil fungi 6815
- Phenols**,
 chlorinated, monochloroacetate esters, preservative 4614
- Phenoxazone pigment**,
Streptomyces michiganensis, structure 7680
- Phenoxetol**,
 cosmetic preservation 4698
- Phenoxy alcohol**,
 + halogenated phenoxyphenol, antibacterial agent 10156
- Phenoxyacetamido-nitrothiazole**,
 derivatives, antibacterial agent/antifungal agent 2973
- 9-Phenoxyaminoacridine**,
 derivatives, antibacterial agent 3691
- Phenoxyphenol**,
 halogenated, + phenoxy alcohol/phenalkyl alcohol, antibacterial agent 10156
- 2-Phenyl-1,2,3-triazole-4-carboxylic acid hydrazide**,
 antibacterial agent 7327
- Phenyl-imidazolyl-fatty acid**,
 derivatives, antifungal agent 8078
- Phenyl-indole**,
 derivatives, antibacterial agent/antifungal agent 6530
- N-Phenyl maleic imide**,
 derivatives, fungicide, plant protection 393
- Phenyl mercurial**,
 cosmetic preservation 4698
- Phenyl mercuric acetate**,
 fungal adaptation, paper 4615
 seed treatment, *Fusarium*, wheat 6378
 snow mould fungi, turfgrass 4485
- Phenyl mercuric nitrate**,
Providencia stuartii 4654
- Phenylacetic acid**,
 penicillin acylase assay, bacteria 5963
Rhizoctonia solani phytotoxin, potato 4267
Xanthomonas oryzae, rice 9796
Xanthomonas oryzae, rice 9797
- Phenylalanine**,
Arthrobacter 3230
Brevibacterium 3230
Escherichia coli, azaserine 10353
Mycobacterium 3230
- L-Phenylalanine**,
Brevibacterium flavum 3233
Brevibacterium lactofermentum 3233
- Phenylamide pesticide**,
 river water, microbial degradation 6023
- Phenylazopyrimidine**,
 derivatives, *Streptococcus faecalis* 7325
- Phenylazoxycyanide**,
 derivatives, antibacterial agent/antifungal agent 9002
- N-Phenylbiguanide**,
 antiviral agent 6520
- Phenylcarbamate**,
 degradation, *Bacillus sphaericus*, aryl acylamidase 901
- Phenyldiamine**,
 derivatives, fungicide/bactericide, plant protection 1118
- Phenylenediamine**,
 derivatives, antibacterial agent/antifungal agent, plant protection 8835
- Phenylenedimethylene diamine**,
 derivatives, antiviral agent 10181

subject index

- phenylethanol,
 - Pseudomonas aeruginosa*, benzalkonium chloride, electron microscopy 6496
- phenylethylalcohol,
 - bactericide 4653
- Botrytis cinerea* 4669
- phenylindole,
 - Aspergillus niger* 3707 3708
- phenylmercuric acetate,
 - bactericide 4653
- heat treatment, sterilisation, *Bacillus subtilis* 6538
- soft contact lens preservative 4700
- phenylmercuric borate,
 - bactericide 4653
- phenylmercuric nitrate,
 - heat treatment, sterilisation, *Bacillus subtilis* 6538
 - soft contact lens preservative 4700
- phenylmethylsulphonyl fluoride,
 - freesia mosaic virus + bean yellow mosaic virus, *Freesia* 6267
 - immobilised/soluble *Escherichia coli* penicillin amidase 7644
- phialomyces,
 - penicillin amidase, 6-aminopenicillanic acid 5676
- phialomyces macrosporus*,
 - penicillin amidase, 6-aminopenicillanic acid 5676
- phialophora cinerescens*,
 - 2-amidocarbonylthiobarbituric acids 2027
 - antibiotic, antifungal agent 10399
 - carnation 9854
 - carnation, resistance 1986 9854
 - soil, fungistasis, methyl bromide 4610
- phialophora festigiata*,
 - wood degradation, agar-stick breaking-radius test 4550
- phialophora festigiata*,
 - Scots pine sapwood 8010
- phialophora radicola*,
 - biological control, *Gaeumannomyces graminis tritici*, Gramineae 370
 - biological control, *Gaeumannomyces graminis tritici*, wheat 370
- phialophora richardsiae*,
 - oil palm kernels 4220
- phialospora*,
 - bis-trifluoromethyl-imine-imidazolone derivatives, plant protection 5429
- phialosporum*,
 - oil palm kernels 4220
- phlodon,
 - resistance, microbial diseases 4471
- phisoHex,
 - endoscope disinfection 8251
- phlebia chryseae*,
 - black cherry 418
 - oak 418
 - Sassafras 418
 - slash pine, 418
- phleomycin,
 - Streptomyces flavoviridis*, bleomycins 629
- phleomycins,
 - Streptomyces* 9463
- phleum green stripe virus,
 - timothy grass/cereal, *Megadelphax sordidula* 1871
- phleum pratense,
 - Cladosporium phlei* 7875 8641
 - fungal diseases 8641
 - Helminthosporium* 8641
 - Helminthosporium phlei* 7875
 - Heterosporium phlei* 2700
 - Leptosphaeria nodorum* 6236
 - Phleum green stripe virus, *Megadelphax sordidula* 1871
 - Puccinia graminis* 4334
- Phloem necrosis,
 - mycoplasma-like organism, elm 10012
- Phloracetophenone,
 - Pseudomonas fluorescens* 7442
- Phloretin,
 - Venturia inaequalis*, apple 5347
- Phloridzin,
 - Venturia inaequalis*, apple 5347
- Phloroglucinol,
 - Pseudomonas fluorescens*, antibacterial agent 7442
- Phlox drummondii,
 - Erysiphe cichoracearum* 304
- Phlox paniculata,
 - Erysiphe cichoracearum* 304
 - Sphaerotheca fuliginea* 304
- Phlox subulata,
 - virus 8676
- Phoenix sylvestris,
 - Phyllosticta helleborella* 1836
 - Xylaria minuta* 1057
- Pholiota,
 - cyanide 2536
- Phoma,
 - 8291
 - blueberry post-harvest decay 5398
 - carbon substrate degradation 9521
 - frozen food 6026
 - giant witchweed 9866
 - loganberry, post-harvest decay 6321
 - pycnidiospores, air, wheat 4351
 - river water 3134
 - sesame phylloplane 1949
- Phoma apicola*,
 - celery 5368
- Phoma betae*,
 - sugarbeet, fungicide seed treatment 8839
 - sugarbeet post-harvest decay, *Penicillium claviforme* 3544
 - sugarbeet seed 332
- Phoma chrysanthemicola*,
 - chrysanthemum, plant protection, fertilizer 4481 4482
- Phoma destructiva*,
 - tomato, plant protection 5392
 - tomato post-harvest decay 5392
- Phoma eupyrena*,
 - soil, organic matter degradation 2864
- Phoma exigua*,
 - endopolygalacturonase/pectinmethylesterase 1631
 - poplar 4541
 - potato, fungicide 7947
 - potato post-harvest decay 1973 1974 4444
 - potato,
 - rishitin/phytuberin/solavetivone/desacetylph ytoberin, assay 3567
 - potato, scopolin 3522
 - pyridine derivatives 2823
 - sunflower 6302
 - white poplar 4541
- Phoma glomerata*,
 - Arachis hypogaea* 2680
 - mango 9837
 - Orange Pincushion 1935
 - sannhemp 7115
- Phoma herbarum*,
 - Chrysanthemum cinerariaefolium* 1909
- Phoma lantanae*,
 - Lantana camara* 2663
- Phoma lingam*,
 - cabbage seed, seed treatment fungicide 8837
 - toxin, rape 7072
- Phoma medicaginis*,
 - alfalfa 7108 8601 9751
 - alfalfa, resistance 7108
- Phoma psidii*,
 - guava post-harvest decay, thiabendazole 2767
- Phoma solanicola*,
 - Capsicum annuum* 3523

Subject index

Phoma solanicola(Contd),

potato 3523
Solanaceae 3523
Solanum lycopersicum 3523

Phoma sorghina,

Aleo vera 1837
Orange Pincushion 1935

Phoma tracheiphila,

citrus, DL-p-fluorophenylalanine 9975
citrus, plant protection 9833
lemon 9834
lemon, plant protection 9833
phytotoxin, lemon mal secco 9835
sour orange 9834
sour orange, electron microscopy 9836
sour orange, DL-p-fluorophenylalanine 9975

Phoma trifolii,

Egyptian clover 9762

Phoma tuberosa,

potato, rishitin/lyubimin 4495

Phoma violacea,

fungicide 2053
guanidine derivatives 8041

Phomazarin,

Pyrenochaeta terrestris, structure 85

Phomopsis,

bean seed 4301
cytochalasin H 985
mango post-harvest decay 9917
soybean seed 4310
soybean seed, fungicide seed dressing +
dichloromethane 2031
soybean seed, seed treatment 1859

Phomopsis aloes-percrassae,

Aleo vera 1837

Phomopsis bougainvilleae,

Bougainvillea 2663

Phomopsis citri,

orange post-harvest decay, fungicide 6318
pyridine derivatives 2823

Phomopsis destructum,

guava 5356

Phomopsis elaeagni,

Russian olive 4539

Phomopsis juniperovora,

juniper, plant protection 1127

Phomopsis mali,

apple post-harvest decay 6317
stone fruit trees 9817

Phomopsis occulta,

fructification sections, scanning electron
microscopy 3197

Phomopsis piceae,

Norway spruce 8853

Phomopsis pustulata,

Eugenia jambolana 1836
malabar nut tree 1836
neem tree 1836
phalsa 1836

Polyalthia longifolia 1836

Phomopsis sclerotioidea,

soil, fungistasis 6419

Phomopsis viticola,

grapevine 7917 9873
grapevine, fungicide 9966
phospholane/phosphite derivatives 3576

Phenograph record,

antifungal agent/antimicrobial agent 472

Pheny disease,

rickettsia-like organism, peach, vacuum
infiltration, phase-contrast microscopy
9840

Phorate,

degradation, Aspergillus niger 1711
degradation, Bacillus megaterium 1711
Trichodorus, tobacco rattle virus, potato
7928

Phosphatase,

Aspergillus niger 5088

Phosphatase(Contd),

Aureobasidium pullulans, paint film
degradation 4177
Bacillus licheniformis 2488
Bacillus licheniformis, chemostat culture
5913

Bacillus subtilis 5966

Bacteroides 3249

Candida albicans, amphotericin B 5645

Candida albicans, levorin 5645

Candida albicans, nystatin 5645

Cryptococcus, soil, inositol hexaphosphate
10052

Escherichia coli, magnesium, zinc 6910

microbial 5041

Mycoplasmatales, fluorogenic tests 10577

Serratia marcescens 3306 3307

Serratia marcescens outer membrane, polymyxin
B 9103

soil microorganisms 2087 10047

Staphylococcus, agar plate tests 2417

Streptomyces fradiae, neomycin 2181

Thiobacillus thioparus 39

Phosphatase test,

Mycobacterium 3180

Phosphate,

-containing ion-exchange resins, dental
caries 8262

barley rhizosphere bacteria 5470

derivatives, fungicide, plant protection
3577

dissolution, soil bacteria, amino acids 8874

dithio-, derivatives, fungicide, plant
protection 2808 2809 2810

organo-, Helminthosporium oryzae, rice 7972

polyphosphate hydrolysis,

Micrococcus/Lactobacillus, meat product
2585

Pyricularia oryzae, rice 5419

Serratia marcescens, prodigiosin 8424

sewage, microbial removal 7480

soil, mycorrhizae 8876

solubilisation, soil bacteria 6414

Phosphate buffer,

bacteriology 6756

Phosphate-dissolving bacterium,

red pine 4529

tomato rhizosphere 8038

Phosphatidase C,

Erwinia carotovora, potato 4102

Phosphatidylethanolamine,

Vibrio cholerae, polymyxin B 3048

Phosphatidylglycerophosphate synthetase,

membrane-associated, Escherichia coli,
affinity chromatography 5967

Phosphatidylinositol phosphodiesterase,

Bacillus cereus 3308

Phosphatidylserine synthetase,

ribosome-associated, Escherichia coli,
affinity chromatography 5968

N-Phosphinothiyl-amidine,

derivatives, fungicide/bactericide, plant
protection 7224

N-Phosphinyl-amidine,

derivatives, fungicide/bactericide, plant
protection 7224

Phosphite,

derivatives, fungicide, plant protection
3576

Phosphobacterium,

fertilizer, maize seed 3629

Phosphodiesterase,

cyclic, Escherichia coli, penicillin + EDTA
9386

forest soil 10048

soil microorganisms 10047

thermophilic fungi 9350

Subject index

- hosphofructokinase,
 - Lactobacillus acidophilus 8383
 - Lactobacillus plantarum 8383
 - Saccharomyces vini, carbon dioxide 8449
- yeast 6911
- yeast, carboxypeptidase 4104
- Phosphofructokinase,
 - Pseudomonas putida 7645
- hosphogluconate,
 - Enterobacter liquefaciens, xylitol 2540
- Phosphogluconate dehydrogenase,
 - Candida lipolytica 3278
 - Lactobacillus fermenti, blue dextran-Sepharose 4B, affinity chromatography 1652
- hosphoglycerate mutase,
 - Hyphomicrobium X 1670
 - Pseudomonas AM1 1670
- hosphoglyceromutase,
 - Saccharomyces cerevisiae 858
- hosphoinositol,
 - ceramide-, Aspergillus niger 6003
- hospholane,
 - derivatives, fungicide, plant protection 3576
- hospholipase,
 - bacterial 4017
 - Botrytis cinerea, plant disease 3309
- hospholipase A,
 - Pseudomonas aeruginosa outer membrane 6821
- hospholipase C,
 - see also alpha-Toxin, Clostridium perfringens
 - Bacillus cereus 6912 7646
 - Bacillus cereus, food 7078
 - bacteria, milk 5208
 - Clostridium perfringens 1830 7083
 - fungi/Staphylococcus 40
 - Pseudomonas fluorescens, + lipase, milk 6992
- hospholipid,
 - acyl phosphatidylglycerol, Pseudomonas BAL-31 3346
 - mannophosphoinositide, Nocardia asteroides 2320
- hosphomonoesterase,
 - soil microorganisms 10047
- hosphomycin,
 - anaerobic bacteria 3074
- hosphonate,
 - derivatives, fungicide, plant protection 8809
 - quaternary ammonium methylene, bactericide/fungicide 3731
- hosphonic acid,
 - derivatives, fungicide, plant protection 8808 9973
- hosphonoacetic acid,
 - herpes simplex virus 8085
 - herpes virus 1243
- Phosphogluconate dehydrogenase,
 - Escherichia coli/Bacillus stearothermophilus 41
- hosphonemycin,
 - + streptomycin/penicillin G/ampicillin, antibacterial agent 6558
 - antibacterial agent 2259
- hosphoramidate,
 - antibacterial agent, industrial water system 3125
 - antibacterial agent, oil recovery system 3125
 - antibacterial agent, water system 3125
- N-Phosphoramidate,
 - adenine nucleotide, agrocin 84, Agrobacterium radiobacter 5991
- hosphoric acid,
 - derivatives, fungicide, plant protection 9973
 - grain preservation 1796
- Phosphoric acid ester amide,
 - derivatives, fungicide/bactericide/viricide, plant protection 1117
- Phosphorous,
 - removal, Acinetobacter phosphodevorus, wastewater 10467
- Phosphorous disinfectant,
 - antibacterial agent 6727
- Phosphorus,
 - organo-, Phytophthora infestans, potato 2008
 - soil, Endogone, Agrostis 8877
- Phosphorus compound,
 - organo-, antimicrobial agent 2906
 - organo-, fungicide 2951
- Phosphorus fertilizer,
 - vesicular-arbuscular mycorrhiza, potato 8878
- Phosphorus fixation,
 - soil 8922
- Phosphorus pentoxide,
 - gas-liquid chromatography, bacterial products 1558
- Phosphoryl phenyldiamine,
 - derivatives, fungicide/bactericide, plant protection 1118
- Phosphorylation,
 - amikacin, Staphylococcus aureus aminoglycoside phosphotransferase 6859
 - oxidative, bacteria 5833
 - Streptomyces aureofaciens nucleoside diphosphokinase 3298
- Phosphotriesterase,
 - soil microorganisms 10047
- Photobacterium leiognathi,
 - luciferase 9415
- Photochemical reaction centre,
 - Rhodospseudomonas viridis 6944
- Photochemistry,
 - nystatin 6609
- Photodiethylrin,
 - degradation, Trichoderma viride, soil 2896
- Photofluorometry,
 - aflatoxin B1 229
- Photography,
 - intravital pulse, dark field, microorganisms 5825
- Photometer,
 - microbial biomass, ATP 1549
- Photometry,
 - bacteria 6760
 - microorganisms 6759
- Photooxidation,
 - dye-sensitized, water/wastewater disinfection, coliform 9221
- Photoreactivating enzyme,
 - Escherichia coli 9427
- Photosensitized oxidation,
 - tetracyclines 7418
- Photosynthetic bacterium,
 - culture vessel 7572
- Phragmidium biloculare,
 - plant disease 6171
- Phragmidium boreale,
 - plant disease 6171
- Phragmidium brevipedicellatum,
 - Fragaria sikkimensis 997
- Phragmidium horkelliae,
 - plant disease 6171
- Phragmidium ivesiae,
 - plant disease 6171
- Phthalate,
 - degradation, Pseudomonas aeruginosa 6981
- Phthalic acid,
 - degradation, soil bacteria 2057
 - soil bacteria 10049
- Phthalic acid ester,
 - degradation, bacteria 3369
- Phthalimide,
 - derivatives, fungicide, plant protection 2815

Subject index

- Phthalonitrile,**
fungicide, plant protection 3579
- Phycomyces blakesleeanae,**
lipase 4096
- Phycomyces nitens,**
lipase 4096
- Phycomycetes,**
2-cyano-2-hydroxyiminoacetamide derivatives 1105
degradation, insoluble polymers 116
phosphonate derivatives, plant protection 8809
- Phygon,**
resistance, Rhizobium, legume seed treatment 7273
- Phyllachora graminis,**
fructification sections, scanning electron microscopy 3197
- Phyllactinia,**
powdery mildew, plants 5298
- Phyllanthus parviflorus,**
+ *Spirillum*, nitrogen fixation 5501
- Phyllocladus trichomanoides,**
Caoma peltatum 4531
- Phylloidy,**
mycoplasma-like organism, *Launaea nudicaulis* 1065
mycoplasma-like organism, sunflower 1955
mycoplasma-like organisms, Delphinium, electron microscopy 4387
- Phylloplane,**
microflora, wheat, fungicide 379
microorganisms 4999
sesame, fungi 1949
- Phylloplane bacterium,**
perennial ryegrass, *Drechslera dictyoides* 7889
- Phyllosphere,**
bacteria, onion, *Botrytis cinerea* 5382
bacteria, onion, *Botrytis squamosa* 5382
gram, fungi, *Uromyces ciceris-arietini* 3465
- Phyllosticta,**
8291
Douglas fir needles 7995
willow 10018
- Phyllosticta digitalis,**
digitalis, lanatoside A/lanatoside C, digitoxin/digoxin 870
- Phyllosticta helleborella,**
Cordia obliqua 1836
Lagerstroemia parviflora 1836
Manilkara hexandra 1836
Plumeria rubra 1836
Tabernaemontana coronaria 1836
Tecomella undulata 1836
wild date palm 1836
- Phyllosticta hesperidearum,**
betelnut palm 1836
Dracaena terniflora 1836
- Phyllosticta mali,**
Rosaceae 5297
- Phyllosticta maydis,**
corn 1870 5327
- Phyllosticta quercus,**
beech 1155
- Phyllosticta sansevieriae,**
Sansevieria 2663
- Phyllus emblica,**
Penicillium funiculosum post-harvest decay 4436
- Physalis angulata,**
potato virus Y 6304
- Physalis franchetii,**
belladonna mottle virus 5363
- Physalis peruvianum,**
Erysiphe cichoracearum 1002
- Physalis virginiana,**
potato virus Y 6304
- Physalospora miyabeana,**
weeping willow 4542
- Physalospora tucumanensis,**
sugarcane 6229 6230
sugarcane, resistance 6230
- Physarum gyrosium,**
antibiotic, culture medium 2238
- Physoderma maydis,**
corn, fungicide 8793 8794
- Phytase,**
Rhizopus oligosporus, soybean fermentation, tempeh, phytate 9598
- Phytate,**
tempeh, soybean fermentation, *Rhizopus oligosporus*, phytase 9598
- Phytoalexin,**
Botryotinia narcissicola 1961
Botrytis cinerea 1961
Botrytis fabae 1961
Helminthosporium carbonum, chickpea 6348
Helminthosporium oryzae, rice 283
isoflavonoid, *Helminthosporium carbonum*, pigeon pea 3566
kievitone, *Aphanomyces euteiches* 2000
kievitone, bean, *Fusarium solani*, hydration 8786
kievitone, *Fusarium solani* 2000
kievitone, *Rhizoctonia solani* 2000
lubimin, *Phytophthora infestans*, potato 1940
lubimin, potato, fungi, 15-dihydrolubimin 7967
lyubimin, potato, microorganisms 4495
maackia, *Helminthosporium carbonum* 4496
4497
maackia, *Stemphylium botryosum* 4496 4497
maackia, *Stemphylium sarcinaeforme* 4496
4497
medicarpin, *Helminthosporium carbonum* 4496
4497
medicarpin, *Stemphylium botryosum* 4496 4497
medicarpin, *Stemphylium sarcinaeforme* 4496
4497
phaseollin, bean, *Botrytis cinerea* 3460
phaseollin, bean, *Colletotrichum lindemuthianum* 8787
phaseollin, *Colletotrichum lindemuthianum*, bean 6349
Phytophthora infestans, potato 2793
pisatin, *Aphanomyces euteiches*, pea 1857
pisatin, *Erysiphe pisi*, pea 8788
pisatin, pea 6350
plant disease 5010 6810
potato, *Phytophthora infestans*, streptomycin 3525
pterocarpan, clover, fungal transformation 3463
Pyricularia oryzae, rice,
2,2-dichloro-3,3-dimethylcyclopropane
carboxylic acid 8785
rishitin, *Phytophthora infestans*, potato 1940 6286
rishitin, potato, microorganisms 4495
rishitin, tomato, *Fusarium lycopersici* 8789
rishitinol, *Phytophthora infestans*, potato 1940
Venturia inaequalis, apple 5347
wyerone epoxide, *Botrytis cinerea*/*Botrytis fabae*, broad bean 373
- Phytol,**
antiviral agent 5585
- Phytolacca americana,**
extracts, antibacterial agent 10141
- Phytopathogenic fungus,**
fungicide resistance 376
- Phytophthora parasitica,**
tobacco 6305
- Phytophthora,**
2-amidocarbonylthiobarbituric acids 2027
aniline derivatives, plant protection 6365
apricot, plant protection 9827
bean 1842
betel, fungicide 8677

Subject index

Phytophthora (Contd),

cacao, plant protection 8784
 chilli, plant protection 7145
 alpha-cyano-alpha-hydroxyimino-acetamide derivatives, plant protection 8810
 ethylimidazole derivatives, plant protection 8814
 horse chestnut 2848
 Parthenium hysterophorus extract 2932
 pigment 4131
 plant disease 6172
 plant disease, resistance 3455
 plants, selective medium 7586
 pyridazine derivatives 2019
 soil 3632
 soil Actinomycetales 5481
 soil, hymexazol selective medium 10054
 soil, plant disease 6418
 soil, selective medium 7586
 soil, strawberry 6432
 soil, tomato 6432
 tetrazolo-pyrimidine derivatives, plant protection 3584
 tomato, plant protection 5392
 tomato post-harvest decay 5392
 triazino-benzimidazole derivatives, plant protection 3588
 triorganotin compounds/triorganolead compounds 2129
Phytophthora arecae,
 arecanut 3506
Phytophthora cactorum,
 apple, plant protection 7136
 beech 1155
 coast live oak 8860
 cork oak 8860
 horse chestnut 2848
 oospores, parasitic microorganisms, soil 8881
 strawberry 9890
Phytophthora cambivora,
 apple, plant protection 7136
 cherry 4362
 Eucalyptus 6398
 Eucalyptus oblique 8008
 Eucalyptus sieberi 8008
 horse chestnut 2848
Phytophthora capsici,
 cucumber,
 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589
 lubimin, 15-dihydrolubimin, potato 7967
 pepper 9879
Phytophthora catorum,
 soil, strawberry 6432
 soil, tomato 6432
Phytophthora cinnamomi,
 avocado 5348 5349 6240
 biological control, fungal mycorrhizae 1123
 chlamydospores, soil, Trichoderma harzianum, Trichoderma polysporum 7261
 coast live oak 8860
 cork oak 8860
 Eucalyptus 6398 8855
 Eucalyptus oblique 8008
 Eucalyptus sieberi 8008
 forest 414
 forest soil, Penicillium purpurogenum 7260
 forest tree ectomycorrhiza 2827
 Lawson cypress 7999
 Lawson cypress, fungicide 8843
 lupin baiting, water 6798
 lupin, hardwood bark compost 7960
 macadamia 1903
 ohia 8861
 pigment 4131
 pine, Amanita muscaria/Boletus edulis 8850
 plant disease 4299 8596 8597
 potting compost 2055

Phytophthora cinnamomi(Contd),

pyridinium derivatives, plant protection 3583
 soil, hymexazol selective medium 10054
Phytophthora citricola,
 coast live oak 8860
 cork oak 8860
 Eucalyptus 6398
 Eucalyptus oblique 8008
 Eucalyptus sieberi 8008
 horse chestnut 2848
Phytophthora citrophthora,
 Eucalyptus 6398
 Eucalyptus oblique 8008
 Eucalyptus sieberi 8008
 lemon post-harvest decay 1969
 pyridine derivatives 2823
Phytophthora colocasiae,
 taro 8736
Phytophthora cryptogea,
 African daisy 3510
 chestnut 3618
 Eucalyptus 6398
 Eucalyptus oblique 8008
 Eucalyptus sieberi 8008
 extracts, tobacco 7937
 pectin methylsterase/pectin transeliminase, squash 352
 pigment 4131
 safflower 7170 9887
 squash, biological control, Penicillium patulum 372
 sunflower 333
 tobacco 6305 6306
Phytophthora drechsleri,
 cherry 4362
 Eucalyptus 6398
 Eucalyptus oblique 8008
 Eucalyptus sieberi 8008
 pigment 4131
 safflower 8726 9887
 safflower, resistance 8726
Phytophthora erythroseptica,
 potato post-harvest decay 7921
Phytophthora fragariae,
 soil 2068
 strawberry, fungicide 2807
 strawberry, resistance 1989
Phytophthora infestans,
 4-thiocyano-quinazolinones 2024
 2-amino-s-triazino[1,2-a]-benzimidazole, Puccinia triticina, 2-amino-s-triazino[1,2-a]-benzimidazole 6515
 anhydro-beta-rotunol 3568
 carbamate derivatives 510 511
 chlorodicyano benzene organosulphur derivatives, plant protection 5595
 copper fungicide, plant protection 8807
 dihydroxydinaphthylmethane, plant protection 4509
 dinitrothiophene derivatives 7987
 furoic amide derivatives, plant protection 8813
 isothiazolopyridinone derivatives 2975
 phospholane/diophosphate derivatives 3576
 phytuberin 3568
 plant disease 2656
 plant disease, resistance 4447
 potato 1076 2754 4364 4404 4405 4406 4407 4408 6287 7165 9882 9883
 potato, aminomethylenemalononitrile derivatives 3578
 potato, aphicide/fungicide 2008
 potato, electron microscopy 3524 6288
 potato, fungicide 4404 7203
 potato, insecticide 4501
 potato, phytoalexin 2793
 potato, resistance 3558 6362
 potato, rishitin 6351

Subject index

- Phytophthora infestans (Contd),**
 potato, rishitin/lutimin/rishitinol 1940
 potato, rishitin/lyubimin 4495
 potato, rishitin/necrosis 6286
 potato,
 rishitin/chytuberin/solavetivone/desacetylph
 ytoberin, assay 3567
 potato, scopolin 3522
 potato, soil 7920
 potato, streptomycin, phytoalexin 3525
 pyridine derivatives 2823
 pyrimidine derivatives 2020
 rishitin 1548
 solavetivone 3565
 tomato 4291 8740
 tomato, 2-aminopyrimidine derivatives 395
 tomato, diphenylamine derivatives 392
 tomato, imidazo-pyrimidine derivatives 4512
 tomato, oxadiazolidine-3,5-dione derivatives
 1115
 tomato, plant protection 5392
 tomato, pyrazolium derivatives 3581
 tomato, triazinedione derivatives 1119
 triazolo-benzothiazole derivatives, plant
 protection 7216
- Phytophthora irregulare,**
 potting compost 2055
- Phytophthora lateralis,**
 cedar, soil 5447
 Port-Orford cedar 3606
- Phytophthora megasperma,**
 alfalfa 5300
 alfalfa, resistance 1977
 alfalfa, Rhizobium meliloti 5301
 cherry 4342
 Eucalyptus 6398
 Eucalyptus oblique 8008
 Eucalyptus sieberi 8008
 horse chestnut 2848
 oospores, Hypochytrium catenoides, soil 6417
 oospores, parasitic microorganisms, soil
 8881
 soil 8884
 soybean 1861 6202 7116 8617 8618
 soybean, resistance testing 4475 7116
 soybean, pyroxychlor seed treatment 2030
- Phytophthora nicotianae,**
 Eucalyptus 6398
 Eucalyptus oblique 8008
 Eucalyptus sieberi 8008
 mandarin orange, fungicide 2724
 passionfruit 8712
 pineapple 7161
 tobacco, resistance 9945
 tobacco, soil fumigant 9971
 tomato, fungicide 4494
- Phytophthora paenica,**
 potato, rishitin/lyubimin 4495
- Phytophthora palmivora,**
 cacao 2731 3506 7144
 cacao, copper compound 6362
 cacao, fungicide 6359
 cacao, resistance 359
 cacao soil 10055
 coconut palm, Bordeaux mixture 3506
 ivy, pyroxychlor 2745
 papaya, fungicide 8666
 papaya post-harvest decay, fungicide 8666
 pepper 3506
 pineapple 7161
- Phytophthora parasitica,**
 betel 309
 betel, antibiotics 9970
 Citrus, irrigation water 1902
 extracts, tobacco 7937
 fungicide 9972
 kestose 5982
 periwinkle 8714
 pigment 4131
 Pilea imperialis, pyroxychlor 3518
- Phytophthora parasitica (Contd),**
 radiate pine, fungicide 4548
 soil, hymexazol selective medium 10054
 tobacco, fungicide 9972
 tomato, coumarins 4510
- Phytophthora phaseoli,**
 Lima bean 260
- Phytophthora porri,**
 cabbage post-harvest decay 1968
- Phytophthora solani,**
 N-phenyl maleic imide derivatives 393
- Phytoplankton,**
 water, chlorine/chloramine, sewage
 chlorination 9226
- Phytotoxin,**
 acetic acid, soil, wheat straw degradation
 7551
 Cercospora 7826
 Cercospora beticola 7826
 Curculiana lunata, corn 6159
 dothistromin, Cercospora smilacis 7065
 Phoma tracheiphila, lemon mal secco 9835
 Rhizoctonia solani, potato 4267
 soil microorganisms 1162
 tentoxin, Alternaria alternata, plants,
 resistance 9721
- Phytuberin,**
 antifungal agent 3568
 Erwinia carotovora, potato post-harvest decay
 4445
 Phytophthora infestans, potato 2793
 potato, Phytophthora infestans/Fusarium
 avenaceum/Phoma exigua, assay 3567
 potato, Phytophthora infestans, streptomycin
 3525
- Picea,**
 Cytospora kunzei 10006
 Fomes annosus 8852
 Fomitopsis annosa,
 nitrogen/potassium/phosphorus fertilizer
 2646
 Herpotrichia parasitica 3605
 soil bacteria 5441
- Picea abies,**
 Armillaria mellea 8853
 Ascomyces sarcoides 8004
 bark, fungal degradation 4552
 bark, microbial degradation 2829
 Botrytis cinerea 8853
 Cytospora kunzei 8853
 Erwinia cancerogena 8853
 Fomes annosus 3604 3614 8004
 Fomes annosus + microflora 7237
 Fomitopsis pinicola 8853
 Heterobasidium annosus 8853
 Mollisia 8004
 Mucorales 8004
 Nectria fuckeliana 8004
 Phomopsis picea 8853
 Pseudomonas syringae 8853
 Rhizina inflata 8853
 root constituents, Fomes annosus enzymes
 2845
 Scytalidium 8004
 Stereum sanguinolentum 8853
 Trichoderma 8004
- Picea engelmannii,**
 decay fungi 5446
- Picea excelsa,**
 Cytospora kunzei 10006
 wood, Serpula lacrimans 7243
- Picea glauca,**
 particle board, decay testing, Gloeophyllum
 trabeum 10028
 Polyporus tomentosus 1125
- Picea glehnii,**
 degradation, Fomitopsis pinicola 5467
 soil, Tricholoma matsutake 5443

Subject index

- Picea jazoensis**,
fungal degradation, ultraviolet/fluorescence microscopy 5466
- Picea mariana**,
Polyporus tomentosus 1125
Sirococcus strobilinus 10007
soil, urea, microflora respiration 2830
- Picea sitchensis**,
Fomes annosus 3604
Geniculodendron pyriforme 7238
Phellinus weirii 7232
wood, Serpula lacrimans 7243
- Pichia**,
S-adenosylmethionine/methylthioadenosine 871
1687
animal feed/food, methanol 820
beverage proportioning pumps 4225
brine 7720
culture 8292
urea hydrolysis, Berthelot colour reaction 6795
- Pichia chodatii**,
cinnamyl phenols 532
- Pichia farinosa**,
culture, ethanol 781
grape must 105
sugars/sugar alcohols 5593
- Pichia guilliermondii**,
alkane 4914
protein, animal feed 1766
riboflavin 6949
- Pichia membranaefaciens**,
5-nitrofurylacrylic acid, wine 3359
- Pichia polymorpha**,
biomass-protein, soybean whey culture medium 6838
- Pichia scolyti**,
autolysis 1716
extract 5885
- Pichia spartinae**,
hexachlorane degradation, heptachlor 4624
- Pickle**,
+ microorganisms, cured pork 3399
cucumber, Clostridium botulinum, acetic acid 221
cucumber fermentation, carbon dioxide
purging, bloater control 4249
- Picolinate**,
Bacillus cereus 8977
- Picornavirus**,
carbazole derivatives 2128
dihydroxyanthraquinone derivatives 7342
hydantoin derivatives 2965
phenanthrene derivatives 525
phenanthridinone derivatives 525
pig slurry, rotating aeration 4857
pyranone derivatives 525
thioxanthene bis-basic ketones 1248
xanthene bis-basic esters/bis-basic amides 1247
xanthene bis-basic ketones 1249
xanthenone bis-basic ketones 1249
xanthone bis-basic esters/bis-basic amides 1247
- Picromycin**,
10,11-dihydro-, Streptomyces venezuelae, antibacterial agent 4798
Streptomyces flavochromogenes 1436
- Pierce's disease**,
grapevine 1929
grapevine, Lactobacillus 7152
- Piericidin A**,
Streptomyces, structure 9490
- Piesma quadratum**,
pathogenic microorganism, sugarbeet 5388
rickettsia-like organism, latent rosette disease, spinach 7173
rickettsia-like organism, latent rosette disease, sugarbeet 7173
witches' broom-like disease, beet 331
- Pig**,
see also Swine
abattoir, Salmonella 9239
bile, Salmonella 5814
caecum, Salmonella 5814
carcass, Escherichia coli, antibiotics resistance 7299
carcass, hygiene 742
carcass, Salmonella 179 8260
drinking trough, disinfection 3145
Escherichia coli vaccine 6667
feed, antibiotic A-4696 624
feed, bambarmycins, Salmonella typhimurium 205
feed, barley grain, preservation, citral caproate/allyl caproate, Aspergillus candidus 9908
feed,
chlortetracycline/sulphamethazine/penicillin, Salmonella typhimurium 206
feed, corn, Fusarium roseum 3414
feed, corn, Gibberella zeae 3414
feed, Lactobacillus lactis, intestinal Lactobacillus/Escherichia coli 9624
feed, lincomycin + spectinomycin/tylosin + sodium arsanilate, swine dysentery 954
feed, Methylomonas methylotropha 6100
feed, microbial protein 1766 5241
feed, microbial protein, methanol 6C99
feed, virginiamycin 9631
feed, yeast protein, paraffin 1767
Mycoplasma vaccine 3C93
Salmonella cholerae-suis vaccine 6667
Salmonella dublin vaccine 6667
waste, denitrification 9179
waste, treatment 10444
- Pig industry**,
hygiene 1524
- Pig manure**,
Salmonella, treatment 9206
- Pig production unit**,
air ionization 7463
- Pig slurry**,
rotating aeration, picornavirus 4857
surface aeration, hygiene 6705
treatment 681
- Pigeon**,
excrement microorganisms, stone degradation 4183
- Pigeon farm**,
bacteria, hygiene 3925
- Pigeon pea**,
+ Rhizobium, nitrogen fixation 4582
arhar mosaic virus 3468 3469
Colletotrichum truncatum 2681
Fusarium oxysporum 7873
Fusarium udum, soil 1358
Helminthosporium carbonum, isoflavonoid 3566
resistance, Mycovelloisella cajani 6331
resistance testing, sterility mosaic 6330
rhizosphere mycoflora 6422
rhizosphere, Pithomyces chartarum 2867
rosette disease, mycoplasma-like organism 5309
- Pigeon pea sterility mosaic**,
Cajanus cajan, resistance testing 6330
- Pigment**,
Actinomadura coerulescens 5618
Alteromonas rubra 3796
amylcyanin, Streptomyces coelicolor 6942
anthraquinone, Streptomyces thermoviolaceus 7432
Aspergillus melleus, carbon-13 nuclear magnetic resonance spectroscopy 6948
Aspergillus sulphureus, carbon-13 nuclear magnetic resonance spectroscopy 6948
averufin, aflatoxin, Aspergillus parasiticus, dichlorvos 6131
averufin, Aspergillus parasiticus 3339
bikaverin, Fusarium oxysporum 5129

Subject index

Pigment (Contd.),

- bulgarein, *Eulgaria inouinans* 5130
- bulnarhodin, *Eulgaria inouinans* 5130
- beta-carotenene, *Rhodospiridium diobovatum* 5131
- carotenoid 9468
- carotenoid, *Rhizotium lipini* 6943
- carotenoid, *Rhodospiridium diobovatum* 5131
- carotenoid, *Sarcina lutea*, structure 9469
- carotenoid, yeast, oat hydrolysate medium 2434
- 5-chloroflexirubin, *Flexibacter elegans* 9470
- flexirubin, *Flexibacter elegans* 75
- 4[(2-(3-hydroxy)-thianaphthenvl)-2-hydroxy-3-*l*-utenic acid, *Pseudomonas aeruginosa*, dibenzothiophene degradation 4173
- hypholomines, *Hypholoma fasciculare* 8423
- Klebsiella aerogenes 882
- melanin, *Actinomyces umbriferus* 6946
- melanin, *Alternaria* 9471
- melanin-like compound, *Macrophomina phaseolina*, soybean 2683
- melanine, *Microsporum canis* 513c
- melanine, *Trichophyton rubrum* 5132
- metacycloprodiginosin, *Streptomyces lonnisporus ruber* 880 881
- methoxyscheroideine, *Rhodopseudomonas spheroides* 7679
- methoxyscheroideinone, *Rhodopseudomonas spheroides* 7679
- Monascus arka* 8498
- Monascus*, red rice wine 6947
- pg, wood-decomposing fungi, soil 7259
- phenoxazone, *Streptomyces michiganensis*, structure 7680
- Phytophthora 4131
- prodiginosin, *Serratia marcescens* 2528 8424
- prodiginosin, *Serratia marcescens*, antibacterial agent 8188
- proferrerosamine A, *Pseudomonas roseus* fluorens 5133 5134
- Propionibacterium shermanii, cheese whey medium 4133
- Pseudomonas* 8422
- Pseudomonas allicola* 8422
- Rhodopseudomonas*, dormant bacteria, waste treatment 3121
- Rhodopseudomonas viridis* photochemical reaction centre 6944
- Rhodospiridium diobovatum* 5131
- rubrosulphin, *Penicillium viridicatum* 6000
- soil *Arthrobacter pyridinolis*, 2-hydroxypyridine degradation 4129
- sporulation, *Streptomyces venezuelae*, medium 7681
- Streptococcus* group B 3194
- Streptococcus* group B, identification medium 3699
- Streptococcus* group E, starch/serum agar medium 4972
- 3,4,5-trihydroxy-7-methoxy-2-methylanthraquinone, *Alternaria porri* 9472
- undecylprodiginosin, *Streptomyces longisporus ruber* 879
- versicolorin A, *Aspergillus parasiticus*, aflatoxin B1 5267
- versicolorin, aflatoxin, *Aspergillus parasiticus*, dichlorvos 6131
- viomellein, *Penicillium viridicatum* 6000
- viopurpurpurin, *Penicillium viridicatum* 6000
- wallemia A, *Wallemia sebi*, structure 9473
- xanthomegnin, *Penicillium viridicatum* 6000
- xanthomonadin T, *Xanthomonas juglandis* 3340
- zeaxanthin dirhamnoside, *Corynebacterium autotrophicum* 4130
- zeaxanthin, *Flavobacter* 73 74

Pigeed mosaic virus,

- Amaranthus viridis* 4371

Pilea imperialis,

- Phytophthora parasitica, pyroxychlor 3518

Pilimelia,

- glycoside-hydrolase inhibitor 80

Piliostigma malabaricum,

- mycorrhiza 8840

Pilobolus crystallinus,

- culture medium 5859

Pilobolus kleinii,

- culture medium 5859

Pimaricin,

- cheese, thin-layer chromatography/high pressure liquid chromatography 8541
- cyclic hemiketals, carbon-13 nuclear magnetic resonance spectroscopy 6567
- Fusarium solani* 10247
- hemiketal structure 5703
- mass spectroscopy 7364
- methyl ester 10266
- packaged cottage cheese, preservation 6125
- resistance, *Candida krusei* 7312
- resistance, *Candida parakrusei* 7312
- resistance, *Candida tropicalis* 7312
- resistance, fungi 5001

Pimaridolide,

- Pithomyces chartarum* 4

Pimento,

- potato virus Y 9845
- resistance, *Verticillium albo-atrum* 9940
- Verticillium albo-atrum* 9940

Pine,

- Aleppo, nut, aflatoxins 9709
- Austrian, *Brunchorstia pinea* 2844
- Austrian, *Genangium ferruginosum* 9998
- Austrian, *Cronartium comandrae* 4544
- Austrian, *Diplodia pinea* 6389 9998
- Austrian, *Diplodia pinea*, Bordeaux mixture 8001
- Austrian, *Dothistroma pini* 6389
- Austrian, fungi 8846
- Austrian, *Fusarium solani*, *Bacillus subtilis* seed treatment 10001
- Austrian, *Lophoderma sulcigena* + *Hendersonia acicola* 2842
- Austrian, *Lophodermium pinastri*, plant protection 1151
- Austrian, *Scirrhia pini* 9998
- Austrian, *Scleroderma lagerbergii* 2834 9998
- Caribbean, mycorrhiza 7228
- celery, *Caecoma peltatum* 4531
- Genococcus graniforme* 2828
- chir, mycorrhiza 3600
- Corsican, *Brunchorstia pinea* 2844
- Corsican, *Fomes annosus*, sapwood dry zones 7233
- Corsican, *Lophoderma sulcigena* + *Hendersonia acicola* 2842
- Corsican, *Lophodermella sulcigena* 7236
- Corsican, needles, *Lophodermium* 1135
- Corsican, *Scleroderma lagerbergii* 2844
- Cronartium comandrae* 8847
- eastern white, *Cronartium vibicola* 2834
- eastern white, *Fomes annosus* 4545
- eastern white, *Lophodermium pinastri*, plant protection 1151
- eastern white, *Verticicladiella* 10004
- Fomes annosus* 2836 2837
- Fomes annosus*, biological control, *Peniophora gigantea* 2838
- Fomitopsis annosa* 2834
- Fomitopsis annosa*, biological control, fruit fly 6390
- fungi 9996
- Herpotrichia juniperi*, fungicide 2840
- jack, *Cronartium comandrae* 4546
- jack, *Lophodermium pinastri*, maneb 1148
- jack, *Cronartium comandrae* 4544
- Japanese stone, *Peridermium* 2843
- Japanese stone, soil, *Tricholoma matsutake* 5442
- limber, *Cronartium ribicola* 2834
- loblolly, *Cronartium comptoniae* 8002

Subject index

Pine (Contd),

loblolly, *Cronartium fusiforme* 3609 6386
 loblolly, *Cronartium fusiforme*, *Scytalidium uredinicola* 5453
 loblolly, *Cronartium fusiforme*, *Tuberculina maxima* 2835
 loblolly, mycorrhizae 8841
 loblolly, mycorrhizae, soil fertilisation 8842
 loblolly, resistance, *Cronartium fusiforme* 3610
 loblolly, soil sewage sludge + *Pisolithus tinctorius* mycorrhiza 3601
 lodgepole, *Cronartium comandrae* 4544
 lodgepole, decay fungi 5446
 lodgepole, dwarf mistletoe, resin disease, fungi 4543
 lodgepole, *Endocronartium harknessii* 411
 lodgepole, *Gremmeniella abietina* 2839
 lodgepole, *Phellinus weirii* 1124 7232
 lodgepole, *Polyporus tomentosus* 1125
 longleaf, *Scirrhia acicola* 8851
 Lophodermium 1129
 Lophodermium pinastri 1129 1131 1134 1136 1153
 Lophodermium pinastri, fungicide 1146 1147
 Lophodermium pinastri, maneb 1148
 Lophodermium pinastri, plant protection 1151 1154
 Lophodermium pinastri, plantifog 160 M 1149
 maritime, *Cronartium flaccidum* 10000
 Merkus, yellow death, mycorrhiza 8845
 Monterey, *Armillaria mellea* 9999
 mountain, *Herpotrichia Coulteri* 2840
 mountain, *Lophodermium pinastri*, plant protection 1151
 mycorrhiza, *Phytophthora cinnamomi* 8850
 mycorrhiza, trifluralin 7227
 patula, mycorrhiza 3600
Phellinus pini 9996
 pinyon, *Verticicladiella wagnerii* 3613
 pitch, *Fomes annosus* 2836 2837
 ponderosa, *Armillaria mellea* 5451 9999
 ponderosa, *Cronartium comandrae* 4544
 ponderosa, decay fungi 5446
 ponderosa, *Diplodia pinea* 8001
 ponderosa, *Fomes annosus* 1122
 ponderosa, *Fusarium*, soil treatment 6391
 ponderosa, *Lophodermella morbida* 3611
 ponderosa, *Lophodermium pinastri*, plant protection 1151
 ponderosa, *Phellinus weirii* 1124
 ponderosa, *Polyporus tomentosus* 1125
 ponderosa, *Pythium*, soil treatment 6391
 ponderosa, *Scleroderma lagerbergii* 2834
 radiate, *Armillaria novae-zelandiae*, toetoe 5452
 radiate, bark, condensed tannin, degradation, *Penicillium adametzi* 3372
 radiate, *Diplodia pinea* 412
 radiate, *Dothistroma pini* 413 8003
 radiate, *Fomes annosus* 2836 2837
 radiate, fungicide seed dressing, mycorrhiza 7989
 radiate, *Phytophthora parasitica*, fungicide 4548
 radiate, preservative-treated, soft rot 10020
 radiate, seed dressing fungicide, mycorrhiza 6382
 red, *Fomes annosus* 2836
 red, *Lophodermium pinastri*, fungicide 1145
 red, *Lophodermium pinastri*, maneb 1148
 red, mineral phosphate-dissolving bacteria 4529
Scirrhia pini 10003
Scleroderma lagerbergii 2834
 Scots, cones, *Lophodermium pinastri* 1139
 Scots, *Cronartium comandrae* 4544

Pine (Contd),

Scots, cytokinin/auxin, *Suillus variegatus* 6381
 Scots, *Diplodia pinea* 6389 8001
 Scots, *Dothistroma pini* 6389
 Scots, *Endocronartium harknessii*, maneb 2039
 Scots, *Fomes annosus* 3604
 Scots, *Fomes annosus*, sapwood dry zones 7233
 Scots, fungi 646
 Scots, leaf litter, urea/urine, fungi 2035
 Scots, *Lophodermium* 1129 1132 1137
 Scots, *Lophodermium pinastri* 1129 1130 1131 1133 1134 1136 1137 1138 1142 1143 1152 1153 2841
 Scots, *Lophodermium pinastri*, fungicide 1145 1146 1147 1150 8849
 Scots, *Lophodermium pinastri*, maneb 1148 3612
 Scots, *Lophodermium pinastri*, plant protection 1151 1154
 Scots, *Lophodermium pinastri*, plantifog 160 M 1149
 Scots, *Naemacycus niveus* 10002
 Scots, needles, *Lophodermium* 1135
 Scots, resistance, *Lophodermium pinastri* 1128 1140 1141 1142 1144
 Scots, root rot/butt rot mycoflora 2038
 Scots, roots, coryneform bacteria, auxins 6002
 Scots, roots, fungi, gibberellin-like compounds 4116
 Scots, sawwood, *Phialophora festigiata* 8010
 Scots, seed/cone mycoflora 9997
 Scots, wood preservative 8013
 Scots, wood, *Serpula lacrimans* 7243
 Scots, wood veneer, fungi 4549
 shore, *Scirrhia pini* 4547
 shortleaf, soil sewage sludge + *Pisolithus tinctorius* mycorrhiza 3601
 slash, *Cronartium fusiforme* 2040 3609 6387
 slash, *Cronartium fusiforme*, fungicide 2041
 slash, *Cronartium fusiforme*, *Scytalidium uredinicola* 5453
 slash, *Phlebia chrysocrea* 418
 soil, macronutrients, litter microorganisms 7994
 stake, fungi 7244
 sugar, *Fomes annosus* 1122
 Swiss stone, *Lophodermium pinastri*, plant protection 1151
 Swiss stone, rhizosphere microorganisms, amino acids 7229
 western white, *Cronartium ribicola* 6388
 western white, decay fungi 5446
 western white, *Phellinus weirii* 1124 7232
 white, *Graphium*, cryptosporiopsis 4555
 white, *Graphium*, hyalodencrin 4555
 white, *Graphium*, *scytalidin* 4555

Pineapple,

Ceratocystis paradoxa, fungicide 8822
Fusarium moniliforme 5383
Penicillium funiculosum 5383
Phytophthora nicotianae 7161
Phytophthora palmivora 7161
 viral wilt 4400

Pinus,

Armillaria mellea 9999
Cenococcum graniforme 2828
Cronartium comandrae 8847
Fomes annosus 2836
Fomes annosus, biological control, *Peniophora gigantea* 2838
Fomitopsis annosa, biological control, fruit fly 6390
 fungi 9996
Lophodermium 1129
Lophodermium pinastri 1129 1131 1134 1136 1153
Lophodermium pinastri, fungicide 1146 1147
Lophodermium pinastri, maneb 1148

Subject index

- Pinus (Contd),**
Lophodermium pinastri, plant protection 1154
Lophodermium pinastri, plantifog 160 M 1149
mycorrhiza, trifluralin 7227
Phellinus pini 9996
 resistance, *Lophodermium pinastri* 1140
Scirrhia acicola 10003
Scirrhia pini 10003
 soil, macronutrients, litter microorganisms 7994
 stake, fungi 7244
- Pinus banksiana,**
Cronartium comandrae 4544 4546
Lophodermium pinastri, maneb 1148
- Pinus caribaea,**
mycorrhiza 7228
- Pinus cembra,**
Lophodermium pinastri, plant protection 1151
 rhizosphere microorganisms, amino acids 7229
- Pinus contorta,**
Cronartium comandrae 4544
 decay fungi 5446
 dwarf mistletoe, resin disease, fungi 4543
Endocronartium harknessii 411
Gremmeniella abietina 2839
Phellinus weirii 1124 7232
Polyporus tomentosus 1125
Scirrhia pini 4547
- Pinus densiflora,**
Fomes annosus 2836
 resistance, *Fomes annosus* 2837
 soil, *Tricholoma matsutake* 5442 5443
- Pinus divaricata,**
Cronartium comandrae 4544 4546
- Pinus echinata,**
 soil sewage sludge + *Pisolithus tinctorius*
mycorrhiza 3601
- Pinus edulis,**
Verticicladiella wagnerii 3613 10005
- Pinus elliotii,**
Cronartium fusiforme 2040 3609 6387
Cronartium fusiforme, fungicide 2041
Cronartium fusiforme, *Scytalidium uredinicola* 5453
Phlebia chrysocrea 418
- Pinus flexilis,**
Cronartium vibicola 2834
- Pinus halepensis,**
 nuts, aflatoxins 9709
Phellinus pini 9996
- Pinus lambertiana,**
Fomes annosus 1122
- Pinus longifolia,**
 antibacterial agent/antifungal agent 6523
- Pinus merkusii,**
 yellow death, *Mycorrhiza* 8845
- Pinus montana,**
Herpotrichia Coulteri 2840
Lophodermium pinastri, plant protection 1151
- Pinus monticola,**
Cronartium ribicola 6388
 decay fungi 5446
Phellinus weirii 1124 7232
- Pinus nigra,**
Brunchorstia pinea 2844
Cenangium ferruginosum 9998
Cronartium comandrae 4544
Diplodia pinea 6389 9998
Diplodia pinea, Bordeaux mixture 8001
Dothistroma pini 6389
Fomes annosus, sapwood dry zones 7233
 fungi 8846
Fusarium solani, *Bacillus subtilis* seed treatment 10001
Lophoderma sulcigena + *Hendersonia acicola* 2842
Lophodermella sulcigena 7236
Lophodermium pinastri, plant protection 1151
- Pinus nigra (Contd),**
 needles, *Lophodermium* 1135
Scirrhia pini 9998
Scleroderris lagerbergii 2834 2844 9998
- Pinus pallasiiana,**
Scleroderris lagerbergii 2834
- Pinus palustris,**
Scirrhia acicola 8851
- Pinus patula,**
mycorrhiza 3600
mycorrhiza, *Phytophthora cinnamomi* 8850
- Pinus pinaster,**
Cronartium flaccidum 10000
- Pinus ponderosa,**
Armillaria mellea 5451 9999
Cronartium comandrae 4544
 decay fungi 5446
Diplodia pinea 8001
Fomes annosus 1122
Fusarium, soil treatment 6391
Lophodermella morbida 3611
Lophodermium pinastri, plant protection 1151
Phellinus weirii 1124
Polyporus tomentosus 1125
Pythium, soil treatment 6391
Scleroderris lagerbergii 2834
- Pinus pumila,**
Peridermium 2843
 soil, *Tricholoma matsutake* 5442
- Pinus radiata,**
Armillaria novae-zelandiae, toetoe 5452
 bark, condensed tannin, degradation, *Penicillium adametzi* 3372
Diplodia pinea 412 8848
Dothistroma pini 413 8003
Fomes annosus 2836
 fungicide seed dressing, *mycorrhiza* 7989
Phytophthora parasitica, fungicide 4548
 preservative-treated, soft rot 10020
 seed dressing fungicide, *mycorrhiza* 6382
- Pinus radiata x Pinus rigida,**
 resistance, *Fomes annosus* 2837
- Pinus resinosa,**
Fomes annosus 2836
Lophodermium pinastri 1152
Lophodermium pinastri, fungicide 1145
Lophodermium pinastri, maneb 1148
 mineral phosphate-dissolving bacteria 4529
- Pinus rigida,**
Fomes annosus 2836
- Pinus rigida x Pinus radiata,**
Fomes annosus 2836
 resistance, *Fomes annosus* 2837
- Pinus roxburghii,**
mycorrhiza 3600
- Pinus scopulorum,**
Scleroderris lagerbergii 2834
- Pinus sibirica,**
Fomitopsis annosa 2834
Scleroderris lagerbergii 2834
- Pinus strobus,**
Cronartium vibicola 2834
Fomes annosus 4545
Lophodermium pinastri, plant protection 1151
Verticicladiella 10004
 wood, *Graphium*, cryptosporiopsis 4555
 wood, *Graphium*, hyalodendrin 4555
 wood, *Graphium*, *scytalidin* 4555
- Pinus sylvestris,**
 cones, *Lophodermium pinastri* 1139
Cronartium comandrae 4544
 cytokinin/auxin, *Suillus variegatus* 6381
 degradation, *Peniophora mutata* 10022
Diplodia pinea 6389 8001
Dothistroma pini 6389
Endocronartium harknessii, maneb 2039
Fomes annosus 3604
Fomes annosus, sapwood dry zones 7233
 fungi 8846
 leaf litter, urea/urine, fungi 2035

Subject index

- Pinus sylvestris (Contd),**
Lophodermium 1129 1132 1137
Lophodermium pinastri 1129 1130 1131 1133
 1134 1136 1137 1138 1142 1143 1152 1153
 2841
Lophodermium pinastri, fungicide 1145 1146
 1147 1150 8849
Lophodermium pinastri, maneb 1148 3612
Lophodermium pinastri, plant protection 1151
 1154
Lophodermium pinastri, plantifog 160 M 1149
Naemacyclus niveus 10002
 needles, *Lophodermium* 1135
 resistance, *Lophodermium pinastri* 1128 1140
 1141 1142 1144
 root rot/butt rot mycoflora 2038
 roots, coryneform bacteria, auxins 6002
 roots, fungi, gibberellin-like compounds
 4116
 sapwood, *Phialophora festigiata* 8010
 seed/cone mycoflora 9997
 wood preservative 8013
 wood, *Serpula lacrimans* 7243
 wood veneer, fungi 4549
- Pinus taeda,**
Cronartium comptoniae 8002
Cronartium fusiforme 3609 6386
Cronartium fusiforme, *Scytalidium uredinicola*
 5453
Cronartium fusiforme, *Tuberculina maxima*
 2835
 mycorrhizae 8841
 mycorrhizae, soil fertilisation 8842
 resistance, *Cronartium fusiforme* 3610
 soil sewage sludge + *Pisolithus tinctorius*
 mycorrhiza 3601
- Pinyn,**
Verticillium dadiella wagnerii 10005
- Pipemidic acid,**
 antibacterial agent 2969
 R factor transfer, *Escherichia coli* 3670
 R factor transfer, *Pseudomonas aeruginosa*
 3670
- Pip beetle,**
Alternaria infectoria 1912
Phytophthora, fungicide 8677
Phytophthora parasitica 309
Phytophthora parasitica, antibiotics 9970
Rhizoctonia bataticola 8678
Trichothecium roseum 1912
- Piperazine,**
 derivatives, antibacterial agent 2116
- Piperazinoethyl-dihydroindolo-benzazepine,**
 derivatives, antibacterial agent/disinfectant
 2948
- Piperazinyl-oxypyrido-pyrimidine,**
 derivatives, antibacterial agent 2946
- Piperidinium bromide,**
 1-[4-(alkoxyphenoxy)-butyl]-1-ethyl-,
 antibacterial agent/antifungal agent 2977
- Piperidine-N-acetohydrazide,**
 hydrazones, antibacterial agent/antifungal
 agent 2152
- Piperocaine HCl,**
 veterinary topical product, antibacterial
 agent/antifungal agent 2970
- Piperonyl butoxide,**
Fusarium graminearum, zearalenone 2636
 potato spindle tuber viroid, potato 9985
- Pipette tip,**
 disposable, autoclavable dispenser 7351
- Pipetting apparatus,**
 2358
- Piptopus betulinus,**
 birch, scanning electron microscopy 3616
 wood, scanning electron microscopy 6400
- Pirbenticillin,**
 + gentamicin, *Pseudomonas aeruginosa* 6556
Pseudomonas aeruginosa 5674 6556
- Piricularia,**
 1-propyl-1,2,4-triazolyl derivatives 2018
 triazolyl-O,N-acetal derivatives, plant
 protection 394
- Piricularia oryzae,**
 antibiotic OS-1834 10345
 rice, diphenylamine derivatives 392
- Pirimicarb,**
 sugarbeet virus yellows, sugarbeet 7201
 sugarbeet yellows virus, sugarbeet 365
- Piromidic acid,**
 + 1,10-phenanthroline, *Escherichia coli*
 10146
- Pisatin,**
Aphanomyces euteiches, pea 1857
Erysiphe pisi, pea 8768
 pea 6350
 red clover, *Sclerotinia sclerotiorum*/*Botrytis*
cinerea 1846
- Pisolithus,**
 yellow death, Merkus pine 2845
- Pisolithus tinctorius,**
 + soil sewage sludge, pine 3601
Eucalyptus gumifera 409
- Pistachio,**
 aflatoxins 5276 5277
Aspergillus flavus, aflatoxin 227
Aspergillus versicolor, Sterigmatocystin 227
 soil fungi 5276
Verticillium albo-atrum, soil fumigation
 5362
- Pistachio nut,**
Penicillium 5276
- Pistacia vera,**
Aspergillus flavus, aflatoxin 227
Aspergillus versicolor, Sterigmatocystin 227
 nut, aflatoxins 5276 5277
 nut, *Penicillium* 5276
 soil fungi 5276
Verticillium albo-atrum, soil fumigation
 5362
- Pisum sativum,**
 + *Rhizobium* 4581
 + *Rhizobium leguminosarum*, nitrogen fixation
 8909
 + *Rhizobium leguminosarum*, nodulation,
 nitrogen fixation 6446
 + *Rhizobium*, nodulation/nitrogen fixation
 4591
Aphanomyces euteiches, dinitramine 6353
Aphanomyces euteiches, herbicide 7968
Aphanomyces euteiches, pisatin 1857
Aphanomyces euteiches, trifluralin 6353
Ascochyta 9766
Ascochyta pinodella 9766
Ascochyta pisi 9766
Botrytis cinerea 9766
Erysiphe graminis 6190
Erysiphe pisi 4306 9767
Erysiphe pisi, pisatin 8788
Erysiphe polygoni 2676 2677
Erysiphe polygoni, sulphur fungicide 8812
 fungal diseases 9766
Fusarium avenaceum 9766
Fusarium culmorum 9766
Fusarium oxysporum 2678 4307
Fusarium oxysporum, biological control 5412
Fusarium oxysporum + pea mosaic virus 7872
Fusarium oxysporum, soil 7867
Fusarium solani 3466
Fusarium solani, histones 9954
 glycine/D-norvaline, *Rhizobium* 4592
 Lectins, + *Rhizobium*, nitrogen fixation 8899
 Mycoplasma 1855
 pea early-browning virus 5306
 pea enation mosaic virus 5307
 pea leaf roll virus 7113
 pea seedborne mosaic virus 1854
Peronospora pisi 9766
Peronospora viciae 4367

Subject index

Pisum sativum(Contd),

- pisatin 6353
- Pleospora infectoria, pectolytic enzymes 7643
- Pythium ultimum, 2-aminopyrimidine derivatives 395
- resistance, Erysiphe polygoni 2677
- resistance, Fusarium oxysporum 1011
- resistance, Peronospora pisi 4470
- resistance testing, Fusarium oxysporum + Aphanomyces euteiches 6329
- Rhizobium leguminosarum bacteroid 4590
- Rhizopus nigricans 9766
- root rot fungi, fungicide 377
- Sclerotinia sclerotiorum, scanning electron microscopy 6173
- seed, Aspergillus flavus 1838
- seed, Fusarium oxysporum 1856
- seed, Fusarium oxysporum, seed dressing 1012
- Septoria pisi 9766
- tomato spotted wilt virus 1831
- Verticillium dahliae 254
- white clover mosaic virus 1831

Pith rot,

- tomato, plant protection 5392

Pithomyces chartarum,

- 2,5-dihydroxy-1,4-benzoquinones 8082
- benomyl, pasture 2004
- carbendazim, pasture 2004
- depsipeptide 45
- earthworm, pasture 2067
- facial eczema 973
- pigeon pea rhizosphere 2867
- sporodesmin, animal feed 972
- thiophanate methyl, pasture 2004
- toxins, barley, animal feed 5262

Pithomyces maydis,

- corn 6219

Pito,

- non-alcoholic beer 100

Pittosporum rhabdovirus,

- Pittosporum tobira vein yellowing disease 3519

Pittosporum tobira,

- rhabdovirus, vein yellowing disease 3519

Pityrosporum canis,

- antifungal agent 5566
- cuprimycin 5566
- nystatin 5566
- Panolog 5566
- Toptic 5566
- Unitop 5566

Pityrosporum ovale,

- n-oxypridyl thiol aluminium derivatives 749
- pyridazine-2-oxide derivatives 3932
- quinoxaline derivatives 5598

Pivalic acid,

- volatile fatty acids, rumen microorganisms 3416

Pivampicillin,

- antibacterial agent 1368 2969

Pivmecillinam,

- Enterobacteriaceae 4767

Pizza,

- frozen, Staphylococcus aureus 2590
- partially-baked, preservation 9685

Plague vaccine,

- 3086
- scanning electron microscopy 3831

Plane,

- Ceratocystis fimbriata, fungicide 5462

Plane tree,

- Aureobasidium pullulans 1157
- Ceratocystis fimbriata 1156
- Gnomonia platani, trace metal leaf pollutants 7239

Planomonospora,

- glycoside-hydrolase inhibitor 80

Plant,

- antibacterial agent/antifungal agent 6523

Plant(Contd),

- antifungal agent, Trichoderma lignorum 6508
- cell wall degradation, Penicillium citreo-viride enzyme 6852
- essential oil, antibacterial agent 5548
- extract, antibacterial agent/antifungal agent 3719
- extract, antiviral agent, influenza virus 1240
- extracts, antibacterial agent 10186
- extracts, antifungal agent 10185
- extracts, antifungal agent, plant protection 9956
- extracts, antimycoplasmal agent 10186
- extracts, antiviral agent 10186
- general resistance, microbial disease 5403
- microbial disease, resistance 4447
- phyllloplane microorganisms 4999
- Phytophthora, selective medium 7586
- potted, bacteria, hospital hygiene 10489
- resistance, microbial disease 354 1092 8762
- seed germination, soil microorganisms 1163

Plant disease,

- 2629 2655 2659 2660 3218 4025 4026 4288 4999 5009 5010 6161 6816 7861 8304 8588 9745 9746
- Agrobacterium tumefaciens, Agrobacterium radiobacter agrocin 84 1404
- air pollution 7862
- Alternaria alternata tentoxin, resistance 9721
- bacteria, antibiotics 7222
- bacterial 6165
- Botrytis cinerea phospholipase 3309
- bromegrass mosaic virus, pollen 7103
- cherry leaf roll virus 9748
- Colletotrichum dematium 8595
- Colletotrichum gloeosporioides 8595
- computer 7102 8589
- cucumber mosaic virus 9749
- endopolygalacturonase/pectinmethylesterase, fungi 1631
- ergot, Claviceps purpurea 5126
- fungal 1834 2658 5296 6165 6166 6167 6168 6169
- fungal, benzimidazole resistance 7204
- fungal, fluorescence microscopy 7865
- fungal, hexachlorobenzene resistance 7204
- fungi 4296 8592
- fungi, antifungal agent, plant extracts 9956
- fungi, fluorescence microscopy, calcofluor 10609
- fungi, fungicide 7222
- fungi, fungicide resistance 2001
- fungi, soil rhizosphere 3633
- fungicide 375
- fungicide, fungal resistance 3667
- fungicide, thiabendazole 2818
- Fusarium, isolation medium 7584
- Fusarium moniliforme, gibberellin 8402
- fusicoccin 9714
- Helminthosporium sativum victoxinine 6160
- Helminthosporium victoriae victoxinine 6160
- Leveillula 4297
- microbial 2404 2656 6810 7100 7101 9747
- microbial, cold treatment 9949
- microbial, electrophysiology 3454 4287
- microbial, genetics 6162
- microbial, light 4290
- microbial, plant disease 4289
- microbial, resistance 4447 9923 9924
- microbial, soil water matrix potential 7863
- mildew, iodine staining 8594
- mycoplasma-like organism 5295 8591
- mycoplasma-like organism, plant protection 5436
- mycoplasma, plant protection 8826
- Peronosporaceae 4298
- Phragmidium biloculare 6171
- Phragmidium boreale 6171

Subject index

Plant disease(Contd),

Phragmidium horkeliae 6171
 Phragmidium iesviae 6171
 Phytophthora 4172
 Phytophthora cinnamomi 4299 8596 8597
 Phytophthora, pigment 4131
 phytotoxin, soil microorganisms 1162
 plant, general resistance 5403
 plant protection 3546
 plant protection, antibacterial agent,
 phage/bacteriocin 3593
 plant protection, thermosanitation 3563
 plant tissue stimulating factor, Aspergillus
 japonicus 2531
 potato virus Y 9845
 powdery mildew 304 5298
 Pseudomonas aeruginosa, protease 6916
 Pseudomonas, antibacterial agent, amino acids
 3457
 Pseudomonas solanacearum, ethylene 2092
 Pythium 6172
 Pythium aphanidermatum oospore 8297
 Pythium damping-off, soil 6433
 Pythium myriotylum oospore 8297
 resistance 354 3455
 Rickettsia-like organism 8591
 Sclerotinia sclerotiorum
 endo-beta-1,4-galactanase 9390
 soil fungi 6418
 southern bean mosaic virus, pollen 7103
 Spiroplasma 2591
 tobacco mosaic virus, pollen 7103
 Verticillium dahliae 254
 Verticillium dahliae, endo-polygalacturonase
 253
 Verticillium dahliae,
 endo-polygalacturonase/endo-cellulase 2666
 virus, antibiotics 9983
 virus indexing, Sephadex gel exclusion
 chromatography 249
 virus, plant tissue culture 9950
 viruses 801
 viruses, whitefly 4293
 Xanthomonas xanthan 6936

Plant diseases: Fruit trees,

296-303, 1043-1047, 1898-1907, 2718-2727,
 3492-3498, 4361-4363, 5342-5362, 6239-6247,
 7136-7141, 7900-7902, 8660-8672, 9816-9844

Plant diseases: General,

248-254, 997-1004, 1831-1839, 2655-2666,
 3454-3457, 4287-4300, 5293-5299, 6161-6173,
 7100-7106, 7861-7867, 8588-8598, 9745-9750

Plant diseases: Gramineous crops,

268-295, 1019-1042, 1862-1897, 2684-2717,
 3474-3491, 4315-4360, 5315-5341, 6203-6238,
 7117-7135, 7875-7899, 8620-8659, 9773-9815

Plant diseases: Leguminous crops,

255-267, 1005-1018, 1840-1861, 2667-2683,
 3458-3473, 4301-4314, 5300-5314, 6174-6202,
 7107-7116, 7868-7874, 8599-8619, 9751-9772

Plant diseases: Others,

304-341, 1048-1086, 1908-1964, 2728-2763,
 3499-3539, 4364-4430, 5363-5395, 6248-6316,
 7142-7182, 7903-7944, 8673-8746, 9845-9906

Plant growth hormone,

phosphate-solubilizing bacteria, tomato
 rhizosphere 8038

Plant growth promotant,

shiitake/namako/enokidake 1694

Plant growth regulator,

Alternaria solani, cellulase 3697
 Alternaria tenuis, cellulase 3697
 cucumber mosaic virus, chilli 3555

Plant growth stimulant,

Bacillus uniflagellatus 8307

Plant growth stimulator,

malformin, assay, mung bean 4811

Plant growth substance,

microbial 81

Plant juice,

protein, microbial fermentation/coagulation
 7026

Plant oil,

antifungal agent, plant protection 386

Plant protection,

362 2404 2656 3218 3546 4026 5392 7861 8304
 9924

4-thiocyano-cuinazolines, plant protection
 2024

aluminium foil, marrow, watermelon mosaic
 virus 6346 7984

ampurimycin, rice, Pyricularia oryzae 9124
 9125

ammonium sulphate, corn, Helminthosporium
 turcicum 4333

antibacterial agent, amino acids, Pseudomonas
 3457

antibacterial agent/antifungal agent,
 antibiotic A-30641 10339

antibacterial agent/antifungal agent,
 Nalpha-cocoyl-L-arginine ethyl ester

DL-2-pyrrolidone-5-carboxylic acid salt
 7986

antibacterial agent/antifungal agent, diazine
 derivatives 7223

antibacterial agent/antifungal agent,
 4,5-dihydrotetrazolo(1,5-a)-quinoxaline
 derivatives 9989

antibacterial agent/antifungal agent,
 flavanone derivatives 10188

antibacterial agent/antifungal agent, flavone
 derivatives 10186

antibacterial agent/antifungal agent,
 phenylenediamine derivatives 8835

antibacterial agent, bean, Pseudomonas
 phaseolicola 6376

antibacterial agent, bean, Xanthomonas
 phaseoli 4522

antibacterial agent, cephalosporin
 derivatives 6554

antibacterial agent, Chrysanthemum
 morifolium, Agrobacterium tumefaciens 1920

antibacterial agent, cotton, Xanthomonas
 malvacearum 3595

antibacterial agent, pear, Pseudomonas
 syringae 8828

antibacterial agent, penicillin derivatives
 6554

antibacterial agent, phage/bacteriocin 3593

antibacterial agent, walnut, Xanthomonas
 juglandis 2050

antibacterial agent, Zinnia, Xanthomonas
 nigromaculans 340

antibacterial seed treatment, bean,
 Pseudomonas phaseolicola 3379

antibiotics 7222

antibiotics, Angelonia salicariaefolia,
 'witches' broom, mycoplasma 3500

antibiotics, betel, Phytophthora parasitica
 9970

antibiotics, cauliflower, card rot 402

antifungal agent, 2-aminopy-imidine
 derivatives 395

antifungal agent, ammonium/potassium
 isobutyrate 1257

antifungal agent, anhydro-beta-rotunol 3568

antifungal agent/antibacterial
 agent/antiviral agent, polymeric biguanide
 405

antifungal agent/antibacterial agent,
 s-triazolo-quinoline derivatives 404

antifungal agent,
 2-cyano-2-hydroxyiminoacetaride derivatives
 1104

antifungal agent, diallyl-disulphide 388

antifungal agent, dichlorophenyl derivatives
 5428

antifungal agent, garlic oil 388

antifungal agent, luteone, Lupin 3565

Subject index

Plant protection(Contd),

antifungal agent, okra, *Fusarium* 6277
antifungal agent, phytoberin 3568
antifungal agent,
7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine
derivatives 3589
antifungal agent, rice, *Helminthosporium*
oryzae 283 4498
antifungal agent, rishitin 3568
antifungal agent, shiitake/nameko/enokidake,
melon, *Plasmopara viticola* 1694
antifungal agent, solavetivone 3568
antifungal agent, wheat seed 407
antimycoplasma agent 5436 8826
antimycoplasma agent, eggplant, little leaf
disease 5772
antimycoplasma agent, *Mirabilis jalapa* 5379
antimycoplasma agent, plant disease 5295
antimycoplasma agent, potato, purple top roll
disease 5386
antimycoplasma agent, sandal, sandal spike
5464
antiviral agent 3592
antiviral agent, antibiotics 9983
antiviral agent, broad bean, broadbean mosaic
virus 7591
antiviral agent, chilli, cucumber mosaic
virus 8834
antiviral agent, fumaric acid 9984
antiviral agent, maleic acid 9984
antiviral agent, maleic anhydride 9984
antiviral agent, shiitake/nameko/enokidake,
tobacco mosaic virus 1694
antiviral agent, watermelon 8825
aphicide/fungicide, potato, *Phytophthora*
infestans 2008
apple, *Armillaria mellea*, plant protection,
apple, *Sclerotium rolfsii* 7136
apple, *Clitocybe tabescens* 7136
apple, *Corticium galactinum* 7136
apple, *Phytophthora cactorum* 7136
apple, *Phytophthora cambivora* 7136
apple, *Xylaria mali* 7136
apricot, microbial disease 9827
Armillator, forest soil, *Armillariella mellea*
1121
aseptic plantlet culture, asparagus 1993
aureofungin, sugarcane, *Cephalosporium*
sacchari 8790
auxins, pepper, *Leveillula taurica* 9952
Bacillus seed treatment, wheat, *Tilletia*
carries/Tilletia foetida 4525
Bacillus subtilis seed treatment, Austrian
pine, *Fusarium solani* 10001
bactericide 4292
bactericide, copper compound 2026
bactericide, corn, *Erwinia carotovora* 8827
bactericide, bis(diohenylaminomethane)
derivatives 1265
bactericide/fungicide,
2-amidocarbonylthiobarbituric acids 2027
bactericide/fungicide,
cyanodithioimidocarbonic acid derivatives
1261
bactericide/fungicide, dinitrothiophene
derivatives 7987
bactericide/fungicide, dithiocarbamate
derivatives 6526
bactericide/fungicide, isothiazolidin-3-one
derivatives 8833
bactericide/fungicide,
(N-trimethylthio)-carbamic acid oxime ester
derivatives 9987
bactericide/fungicide, pyridine derivatives
2823
bactericide/fungicide, sulphur-containing
chlorobenzonitrile derivatives 8832
bactericide/fungicide, thiadiazole
derivatives 3597

Plant protection(Contd),

bactericide/fungicide, tria:inedione
derivatives 1119
bactericide, pear, *Erwinia amylovora* 5439
barley straw amendment, soil, potato,
Verticillium albo-atrum 5.15
BAS 3050 F, sugarbeet, *Sclerotium rolfsii*
1110
bavistin, chilli, *Rhizoctonia bataticola*
6370
Bay Meb 6447, azalea, *Ovulinia azaleae* 8819
bean proteinase inhibitor, *Fusarium*
solani/*Fusarium culmorum*/*Fusarium*
avenaceum/*Botrytis cinerea* 2792
benlate, pear, *Venturia pirina* 2726
benomyl, apple, *Venturia inaequalis*,
tolerance 5431
benomyl, apricot, *Eutypa armeniaca* 7983
benomyl, apricot, fruit blenish 4518
benomyl, banana, *Mycosphaerella fijiensis*,
tolerance 6369
benomyl, black walnut, *Gnomonia leptostyla*
10008
benomyl, carnation, *Fusarium oxysporum* 2022
benomyl, carnation, *Verticillium cinerescens*
2022
benomyl, cauliflower, *Sclerotinia*
sclerotiorum 306
benomyl, creeping bentgrass, *Pythium* 4517
benomyl, *Fusarium oxysporum* 10177
benomyl, hawthorn, *Fabraea maculata* 10008
benomyl, lettuce, *Septoria lactucae* 6371
benomyl, *Leucospermum cordifolium*, *Botrytis*
cinerea, tolerance 5377
benomyl, lilac, *Microsphaera alni* 10008
benomyl, Ohio buckeye, *Guignardia aesculi*
10008
benomyl, passionfruit, *Septoria passiflorae*,
resistance 7214
benomyl, peach, *Cytospora leucostoma* 2023
benomyl, pecan, *Fusicladium effusum* 4519
benomyl, potato, *Phoma exigua* 7947
benomyl, rape, *Leptosphaeria maculans* 3598
benomyl, red-osier dogwood, *Septoria*
cornicola 10008
benomyl, rice 400
benomyl, rice, *Pyricularia oryzae* 7215
benomyl seed treatment, potato, *Rhizoctonia*
solani 4526
benomyl seed treatment, rape, *Leptosphaeria*
maculans 3598
benomyl, stone fruit, *Monilinia fructicola*,
tolerance 4627
benomyl, strawberry, *Botrytis cinerea*,
tolerance 6372
benomyl, sugarbeet, *Cercospora beticola*,
resistance 9981
benomyl, sweetpotato, *Fusarium oxysporum*
6373
benomyl, sycamore, *Gnomonia platani* 10008
benomyl, tomato, *Sclerotinia sclerotiorum*
306
benomyl, wheat, *Ustilago nuda tritici* 2006
benzimidazoles, grapevine, *Botrytis cinerea*
4515
benzimidazole-2-carbamate derivatives,
fungicide 2021
benzimidazole, apple, *Venturia inaequalis*,
resistance 398
benzimidazole, apple, *Venturia inaequalis*,
tolerance 3571 7213 9980
benzimidazole, fungal resistance 7204
benzimidazole, peach, *Monilinia fructicola*
399
biological control 4999
biological control, *Agrobacterium*
radiobacter, peach, *Agrobacterium*
tumefaciens 2820

Subject index

Plant protection(Contd),

biological control, *Agrobacterium radiobacter*, *Prunus*, *Agrobacterium tumefaciens* 543R
biological control, *Agrobacterium tumefaciens*, *Prunus* 401
biological control, agrocin 84, *Agrobacterium radiobacter*, crown gall 5991
biological control, almond, *Agrobacterium tumefaciens* 7219
biological control, apricot, *Agrobacterium tumefaciens* 7219
biological control, *Aspergillus versicolor*, versicolin, jute, *Colletotrichum gloeosporioides* 8880
biological control, *Bacillus cereus*, tobacco, *Alternaria alternata* 9955
biological control, *Bacillus subtilis*, cotton, *Rhizoctonia solani* 372
biological control, barley, *Claviceps purpurea*, honeydew 4323
biological control, chestnut, *Endothia parasitica* 3617
biological control, *Colletotrichum*, bean, *Colletotrichum lindemuthianum* 1999
biological control, corn, *Bipolaris maydis* 1998
biological control, cucumber, *Colletotrichum lagenarium* 7954
biological control, *Darluka filum*, oak, *Cronartium fusiforme* 2049
biological control, fruit fly, pine, *Fomitopsis annosa* 6390
biological control, fungal mycorrhizae, *Fomes annosus* 1123
biological control, fungal mycorrhizae, *Phytophthora cinnamomi* 1123
biological control, mushroom, *Pseudomonas tolaasii* 2025
biological control, oat, *Drechslera sorokiniana* 7202
biological control, oat, *Fusarium culmorum* 7202
biological control, oat, *Fusarium culmorum*/*Drechslera sorokiniana*/*Rhizoctonia solani* 1099
biological control, oat, *Rhizoctonia solani* 7202
biological control, pear, *Fusarium oxysporum* 5412
biological control, peach, *Agrobacterium tumefaciens* 7219
biological control, pear, *Erwinia amylovora* 5439
biological control, *Penicillium antibiotics*, sugarbeet, *Rhizoctonia* 4499
biological control, *Penicillium patulum*, cotton, *Rhizoctonia solani* 372
biological control, *Penicillium patulum*, squash, *Phytophthora cryptogea* 372
biological control, *Peniophora gigantea*, *Fomes annosus*, pine 2838
biological control, *Phialophora radicola*, Gramineae, *Gaeumannomyces graminis tritici* 370
biological control, *Phialophora radicola*, wheat, *Gaeumannomyces graminis tritici* 370
biological control, plum, *Agrobacterium tumefaciens* 7219
biological control, *Pythium oligandrum* seed treatment, sugarbeet, *Pythium debaryanum*/*Pythium ultimum* 9991
biological control, rice, *Xanthomonas oryzae* 7220
biological control, soil microflora, *Gaeumannomyces graminis* 368
biological control, soil microflora, wheat root rot 371
biological control, soil, wheat, *Gaeumannomyces graminis tritici* 369

Plant protection(Contd),

biological control, soybean, *Thielaviopsis basicola* 363
biological control, *Sporobolomyces roseus*, wheat, *Cochliobolus sativus* 6352
biological control, tobacco, *Alternaria alternata* 5416
biological control, tomato, tobacco mosaic virus 7539
biological control, *Trichoderma viride*, cotton, *Sclerotium rolfsii*, S-ethyl dipropylthiocarbamate 6354
biological control, *Trichoderma viride*, mushroom, *Verticillium dahliae* 3564
biological control, *Trichoderma viride*, white clover, *Sclerotium rolfsii*, S-ethyl dipropylthiocarbamate 6354
biological control, wheat, *Drechslera sorokiniana* 7202
biological control, wheat, *Fusarium culmorum* 7202 8653
biological control, wheat, *Fusarium culmorum*/*Drechslera sorokiniana*/*Rhizoctonia solani* 1099
biological control, wheat, *Rhizoctonia solani* 7202
biological control, wheat seed, *Helminthosporium rostratum* 4524
blasticidin S tolerance, *Pyricularia oryzae*, rice 7218
Bordeaux mixture, Austrian pine, *Diplodia pinea* 8001
Bordeaux mixture, coconut palm, *Bipolaris halodes* 3506
Bordeaux mixture, coconut palm, *Phytophthora palmivora* 3506
Brassica, *Plasmodiophora brassicae* 6256
cabbage, *Plasmodiophora brassicae* 6256
cacao, *Crinipellis perniciosus* 7144
cacao, *Monilia roleri* 7144
cacao, *Phytophthora* 8764
calixin, wheat, *Erysiphe graminis tritici* 4502
captan, hop, *Septoria humuli* 2743
carbendazim, antiviral agent 2819
carbendazim, elm, *Ceratocystis ulmi* 6396
carbendazim, peanut, *Cercospora personata* 4516
carbofuran, corn, *Erwinia stewartii*, *Chaetocnema pulicaria* 8783
carboxin, wheat, *Ustilago nova tritici* 2006
carrot, *Pythium* 3505
cartap, rice, rice dwarf disease virus, *Nephotettix cincticeps* 7962
ceresan seed treatment, sugarbeet, *Pythium aphanidermatum* 2034
chilli, microbial diseases 7145
chloropicrin + methyl bromide, pistachio, *Pistacia vera* 5362
chloropicrin, perennial ryegrass, rhizoplane microflora 457
chlorothalonil, peanut, *Cercospora arachidicola* 2016
chlorothalonil, peanut, *Cercosporidium personatum* 2016
chlorothalonil, mushroom, *Verticillium fungicola* 2017
Citrus, microbial disease 5414
Citrus, *Phoma tracheiphila* 9833
Citrus young tree decline 6374
coconut, lethal yellowing 10646
coconut palm, *Mycoplasma* 4381
cold treatment, microbial disease 9949
copper compound, cacao, *Phytophthora palmivora* 6362
copper fungicide, grapevine, *Peronospora* 4504
copper oxychloride, coconut palm, *Bipolaris halodes* 3506
corn, maize chlorotic dwarf virus 6212

Subject index

Plant protection(Contd),

corn, maize dwarf mosaic virus 6212
 corn, maize rough dwarf virus 9780
 cotton, *Xanthomonas malvacearum* 7913
 coumarins, tomato, *Phytophthora parasitica* 4510
 crabapple, microbial diseases 3553
 cupric hydroxide, celery, *Erwinia carotovora* 6259
 cuprous oxide, Douglas fir, *Phaeocryptopus gaeumannii* 1126
 cycloate, sugarbeet, *Rhizoctonia solani* 7969
 cytokinin, cowpea, tobacco ringspot virus 8608
 Dahlia leaf extract, *Nicotiana glutinosa*, tobacco mosaic virus 3590
 DD-MENCS soil fumigation + fungicide, asparagus, *Fusarium* 9965
 diallate, cereal, fungal diseases 269
 2,2-dichloro-3,3-dimethylcyclopropane carboxylic acid, phytoalexin, rice, *Pyricularia cryzae* 8785
 dinitramine, pea, *Aphanomyces euteiches* 6353
 dinoseb, peanut, *Sclerotium rolfsii* 9957
 dithane M-45, passionfruit, *Phytophthora nicotianae* 8712
 dodine, apple, *Venturia inaequalis* 3571
 dogwood, witches' broom, antibacterial agent 1928
 elm, *Ceratocystis ulmi* 4533
Erwinia chrysanthemi protein + lipopolysaccharide, tobacco, *Pseudomonas syringae* 3594
 ethephon + fungicides, tomato, *Alternaria solani*/*Alternaria tenuis*/Colletotrichum 8805
 ethirimol, barley, *Helminthosporium sativum* 4728 6205
 ethylene, tomato, *Verticillium albo-atrum* 6361
 fensulfothion, peanut, *Sclerotium rolfsii* 2086
 ferbam, raspberry, *Didymella applanata* 4507
 fertilizer, chrysanthemum, *Phoma chrysanthemicola* 4481 4482
 DL-p-fluorophenylalanine, Citrus, *Phoma tracheiphila* 9975
 DL-p-fluorophenylalanine, sour orange, *Phoma tracheiphila* 9975
 fluotrimazole, *Ustilago avenae* 385
 forest tree, microbial diseases 5445
 formaldehyde + hot water, narcissus, *Fusarium oxysporum* 7978
 fruit tree, virus diseases 9816
 fungicide 375 378 383 384 2009 2790 2794 2795 2796 2951 4292 7206 7222
 fungicide, acid anilides, degradation, soil *Nocardia* 1179
 fungicide, aminomethylenemalononitrile derivatives 3578
 fungicide, aniline derivatives 6365
 fungicide, antibiotic A-2315 623 3799
 fungicide, azalea, *Ovulinia azaleae* 8800
 fungicide/bactericide, antibiotic F-1028 1395 1396
 fungicide/bactericide, imidazolenine derivatives 9988
 fungicide/bactericide, N-methyl-N-alkoxycarbonylsulphenyl-carbamate derivatives 3596
 fungicide/bactericide, N-phosphinyl-amidine/N-phosphinothioyl-amidine derivatives 7224
 fungicide/bactericide, phosphoryl phenyldiamine derivatives 1118
 fungicide/bactericide/viricide, thiophosphoric acid ester amide derivatives 1117
 fungicide, barley, *Puccinia hordei* 1866
 fungicide, BAS 3050 F 1109

Plant protection(Contd),

fungicide, BAS 3170 F 1109
 fungicide, bean seed fungi 6355
 fungicide, bean, *Stagonospora boltshauseri* 2671
 fungicide, benodanil 5417
 fungicide, benomyl, oil adjuvant 2791
 fungicide, bentgrass, *Sclerotinia borealis* 8795
 fungicide, bentgrass, *Typhula* FW 8795
 fungicide, benzamide derivatives 4508
 fungicide, benzimidazole-1-carboximidic acid esters 1116
 fungicide, benzimidazole-2-carbamate derivatives 397 2817
 fungicide, benzimidazole-carbamic acid derivatives 2816
 fungicide, benzimidazole-methyl-carbamate 3587
 fungicide, betel, *Phytophthora* 8677
 fungicide, bis-trifluoromethyl-imine-imidazolone derivatives 5429
 fungicide, black walnut, *Gnomonia leptostyla* 10016
 fungicide, blackcurrant, *Sphaerotheca mors-uvae* 7905
 fungicide, bottlegourd, *Colletotrichum lagenarium* 6357
 fungicide, brinjal, *Verticillium dahliae* 4489
 fungicide, broad bean, *Microsphaera penicillata* 8606
 fungicide, bromopyridines 7211
 fungicide, cabbage, *Plasmodiophora brassicae* 2803 2804
 fungicide, cacao, *Phytophthora palmivora* 6359
 fungicide, campogran M 5417
 fungicide, carbamate derivatives 4506
 fungicide, carboxin 6367
 fungicide, carboxyanilicofuran derivatives 7982
 fungicide, cauliflower, *Rhizoctonia solani* 1103
 fungicide, chilli, *Colletotrichum piperatum* 4490
 fungicide, chilli, *Fusarium oxysporum* 4490
 fungicide, chlorodicyano benzene organosulphur derivatives 5595
 fungicide, chlorothalonil 2016
 fungicide, chrysanthemum, *Alternaria* 4379
 fungicide, Citrus, *Phoma tracheiphila* 9833
 fungicide, cluster bean, *Curvularia lunata* 2802
 fungicide, coffee, *Hemileia vastatrix* 5422
 fungicide, copper 8807
 fungicide, copper compound 2026
 fungicide, corn, *Helminthosporium maydis* 275
 fungicide, corn, *Physoderma maydis* 8793 8794
 fungicide, corn, *Puccinia maydis* 2800
 fungicide, corn, *Puccinia sorghi* 9963
 fungicide, corn, *Sclerophthora rayssiae* 6356
 fungicide, cotton, *Rhizoctonia solani* 4523
 fungicide, Crambe abyssinica, *Chromosporium fulvum* 8691
 fungicide, cucumber, *Rhizoctonia solani*/*Pythium aphanidermatum* 380
 fungicide, cucurbit, *Sphaerotheca fuliginea* 4491
 fungicide, 3-cyanamino-2,6-dinitroaniline derivatives 9976
 fungicide, 2-cyano-2-hydroxyiminoacetamide derivatives 1105
 fungicide, alpha-cyano-alpha-hydroxyimino-acetamide derivatives 8810
 fungicide, 2-cyanoacetamide derivatives 9974
 fungicide, cyanoalkyl sulphonate derivatives 7980

Subject index

Plant protection(Contd),

fungicide, 5-cyanoalkyl-thiadiazolylurea derivatives 1113
 fungicide, decahydroquinoline phosphorylthio-acetyl derivatives 4513
 fungicide, Denmert 7210
 fungicide, dialkyl(optionally substituted hydrocarbylenetiscarbamoyl)bis-benzimidazole carbamate derivatives 4514
 fungicide, dichloromaleic imide derivatives 9582
 fungicide, dihalo-sulphonate derivatives 7979
 fungicide, dihydroxydinaphthylmethane 4509
 fungicide, dichenyl pyrazolium derivatives 1114
 fungicide, diphenylamine derivatives 392
 fungicide, bis(diphenylaminomethane) derivatives 1265
 fungicide, 1,2-dithiol-3-thione derivatives 8077
 fungicide, dithiophosphate derivatives 2810
 fungicide, dithiophosphate ester derivatives 2808 2809
 fungicide, ethylimidazole derivatives 8814
 fungicide, fig, *Cerotium fici* 5421
 fungicide, fig, *Colletotrichum* 5421
 fungicide, flax, *Melampsora lini* 8801
 fungicide, formamide derivatives 7336 8824
 fungicide, fungal resistance 3667
 fungicide, furan-3-carboxamide derivatives 1112
 fungicide, furic amide derivatives 8813
 fungicide, *Fusarium oxysporum* 4484
 fungicide, cinqer, *Fusarium oxysporum* 2007
 fungicide, gram, *Ascochyta rabiei* 2799
 fungicide, grape, *Ecniscardia bidwellii* 8802
 fungicide, grapefruit, *Diaporthe citri* 2722
 fungicide, grapevine, *Botrytis cinerea* 5425
 fungicide, grapevine, *Botrytis cinerea*, wine 8447
 fungicide, grapevine, *Peronospora* 4483
 fungicide, grapevine, *Phomopsis viticola* 9966
 fungicide, groundnut peavine, *Cercospora personata*, *Cercospora arachidicola* 8792
 fungicide, *Helminthosporium sativum* 8791
 fungicide/herbicide, elm, *Ceratocystis ulmi* 2044
 fungicide, imidazo-pyrimidine derivatives 4512
 fungicide, imidazole derivatives 8079
 fungicide, imidazolidine-1,4-dione derivatives 2135
 fungicide, 2-iodobenzanilide 2797 3580
 fungicide, isodehydroacetic acid anilides 2797
 fungicide, isothiazole derivatives 1268
 fungicide, isothiazolopyridinone derivatives 2975
 fungicide, Killian daisy, *Septoria leucanthemi* 3570
 fungicide, larkspur, *Pythium ultimum* 2805
 fungicide, Lawson cypress, *Phytophthora cinnamomi* 8843
 fungicide, letil, *Rhizoctonia solani*/*Fusarium solani*/*Pythium ultimum* 2789
 fungicide, lettuce, *Bremia lactucae* 4391 5426
 fungicide, Limonene derivatives 2015
 fungicide, mandarin orange, *Phytophthora nicotianae* 2724
 fungicide, maneb 390 5427
 fungicide, medicinal plant 3569
 fungicide, mercurated sulphonamides 1262
 fungicide, 2-methylbenzanilide 2797
 fungicide, *Microstroma juglandis*, walnut 5465
 fungicide, *Monilia laxa*, sour cherry 9829

Plant protection(Contd),

fungicide, octahydroindole phosphorylthio-acetyl derivatives 4513
 fungicide, octahydropyridine phosphorylthio-acetyl derivatives 4513
 fungicide, oil palm, *Cercospora elaeidis* 8803 9968
 fungicide, onion, *Alternaria cepulicola* 4492
 fungicide, onion, *Botrytis allii* 6360
 fungicide, onion, *Botrytis cinerea* 6360
 fungicide, onion, *Botrytis squamosa* 6360
 fungicide, onion, *Sclerotium cepivorum* 7974
 fungicide, onion vesicular-arbuscular mycorrhiza/rhizosphere fungi 7975
 fungicide, *Operculella badwickii* 1100
 fungicide, oxadiazolidine-3,5-dione derivatives 1115
 fungicide, oxazolidine derivatives 3703
 fungicide, papaya, *Colletotrichum gloeosporioides*/*Ascochyta caricae*/*Gloeosporium* 2772
 fungicide, papaya, *Macrophoma phaseolina* 2802
 fungicide, papaya, *Phytophthora palmivora* 8656
 fungicide, pea, root rot 377
 fungicide, peach, *Sclerotinia fructicola*, benzimidazole tolerance 8798
 fungicide, peanut, *Aspergillus niger* 9959
 fungicide, peanut, *Fusarium/Rhizoctonia/Sclerotium* 266
 fungicide, peanut, *Sclerotium rolfsii* 9950
 fungicide, pelargonium, *Puccinia pelargonii-zonalis* 6364
 fungicide, N-phenyl maleic imide derivatives 393
 fungicide, phospholane/phosphite derivatives 3576
 fungicide, phosphonate derivatives 8509
 fungicide, phosphonic acid derivatives 8808 9973
 fungicide, phosphoric acid derivatives 9973
 fungicide, phthalimide derivatives 2815
 fungicide, phthalonitrile 3579
 fungicide, phytopathogenic fungi, resistance 376
 fungicide, pine, *Herpotrichia juniperi* 2840
 fungicide, pine, *Loophodermium pinastri* 1146 1147 1151
 fungicide, pineapple, *Ceratocystis paradoxa* 8822
 fungicide, plane, *Ceratocystis fimbriata* 5462
 fungicide + polymeric film 374
 fungicide, poplar, *Melampsora larici-populina* 2047
 fungicide, potato, *Alternaria solani* 5418
 fungicide, potato, *Erysiphe cichoracearum* 4493
 fungicide, potato, *Phytophthora infestans* 4404 7203
 fungicide, powdery mildew 1101
 fungicide, 1-propyl-1,2,4-triazolyl derivatives 2018
 fungicide, *Puccinia arachidis*, peanut 8612
 fungicide, pyran-carboxylic acid anilide derivatives 8820
 fungicide, pyrazole derivatives 6368
 fungicide, pyrazolium derivatives 2812 3581 4511
 fungicide, pyridazine derivatives 2019
 fungicide, pyridinium derivatives 3583
 fungicide, pyrimidine derivatives 9978
 fungicide, pyrone derivatives 6366
 fungicide, quinonemonoxime hydrazone derivatives 7217
 fungicide, radiate pine, *Phytophthora parasitica* 4548
 fungicide, red pine, *Lophodermium pinastri* 1145

Subject index

Plant protection(Contd),

fungicide, resistance, *Botrytis cinerea* 4626
 fungicide, resistance, phytopathogenic fungi 2001
 fungicide + *Rhizobium*, soybean 10070
 fungicide, rice, *Cercospora oryzae* 4486
 fungicide, rice, *Entyloma oryzae* 4486
 fungicide, rice, *Helminthosporium oryzae* 4486 7972
 fungicide, rice, *Neovossia horrida* 9961
 fungicide, rice, *Piricularia oryzae* 4486 4487 5419
 fungicide, rice, *Rhizoctonia* 4486
 fungicide, rice, *Sclerotium oryzae* 284
 fungicide, Rocky Mountain juniper, *Cercospora sequoiae* 6385
 fungicide, rose, *Diplocarpon rosae* 2806
 fungicide, safflower, *Alternaria carthami* 6295
 fungicide, *Sclerotium rolfsii*, *Caladium bicolor* 8799
 fungicide, *Sclerotium rolfsii*, *Polyanthes tuberosa* 8799
 fungicide, Scots pine, *Lophodermium pinastri* 1145 1146 1147 1150 1151 8849
 fungicide seed dressing + dichloromethane, soybean 2031
 fungicide seed dressing, medicinal plant 3569
 fungicide seed dressing, potato, *Helminthosporium solani* 7993
 fungicide seed dressing, wheat, *Tilletia caries*, tolerance 7225
 fungicide seed dressing, wheat, *Tilletia foetida*, tolerance 7225
 fungicide seed dressing, wheat, *Ustilago tritici* 5440
 fungicide seed treatment, bean 7990
 fungicide seed treatment, cotton, *Rhizoctonia solani* 8836
 fungicide seed treatment, legume, *Rhizobium*, resistance 7273
 fungicide seed treatment, onion, *Sclerotium cepivorum* 7991
 fungicide seed treatment, sugarbeet, fungal diseases 2034
 fungicide, *Septoria avenae*, wheat 4488
 fungicide, *Septoria nodorum*, wheat 4488
 fungicide, *Septoria tritici*, wheat 4488
 fungicide, sesame, *Fusarium oxysporum* 9959
 fungicide, sesame, *Thielavia terricola* 381
 fungicide, slash pine, *Cronartium fusiforme* 2041
 fungicide, snap bean, *Uromyces phaseoli* 2798
 fungicide, *Sorghum bicolor*, *Cercospora sorghi* 7973
 fungicide, *Sorghum bicolor*, *Gloeocercospora sorghi* 7973
 fungicide + sprinkler irrigation system, potato, *Alternaria solani* 7970
 fungicide, squash, *Alternaria cucumerina* 382
 fungicide, stone fruit trees, *Pseudomonas mors-prunorum* 9958
 fungicide, stone fruit trees, *Pseudomonas syringae* 9958
 fungicide, stone fruit trees, *Xanthomonas pruni* 9958
 fungicide, strawberry, *Botrytis cinerea* 7976
 fungicide, strawberry, *Botrytis cinerea*, benomyl tolerance 8806
 fungicide, strawberry, *Phytophthora fragariae* 2807
 fungicide, sugarbeet, *Cercospora beticola* 5389
 fungicide, sugarbeet, *Erysiphe betae* 7205
 fungicide, sugarbeet, *Erysiphe betae*/virus yellows 7977
 fungicide, sulphonic acid esters 3724
 fungicide, tetrazolo-pyrimidine derivatives 3584

Plant protection(Contd),

fungicide, thiabendazole 2818
 fungicide, thioallophanate derivatives 391 1111
 fungicide, thiocarbamate/dithiocarbamate formamides 2013
 fungicide, 2-thiocyanomethylthiobenzothiazole 5417
 fungicide, thionosalicyclic acid anilide derivatives 3726
 fungicide, thioureidobenzene phosphates 2014
 fungicide, tobacco, *Phytophthora parasitica* 9972
 fungicide, tomato, *Botrytis cinerea* 8804
 fungicide, tomato, *Phytophthora nicotianae* 4494
 fungicide, tri-2-norbornyltin derivatives 6363
 fungicide, triadimefon 3573
 fungicide, triadimefon, fungal resistance 3572
 fungicide, triarimol 3572
 fungicide, triarimol, fungal resistance 3572
 fungicide, triazine derivatives 8821
 fungicide, triazino-benzimidazole derivatives 3588
 fungicide, triazole derivatives 7207 7208 7209 8816 8818
 fungicide, triazolo-benzothiazole derivatives 7216
 fungicide, triazolyl-0,N-acetal derivatives 394
 fungicide, triazolyl-phenyl-phenoxy-3,3-dimethyl-butan-2-one 8817
 fungicide, tridemorph 5417
 fungicide, trifluoromethylimino-benzo-heterocycle derivatives 9979
 fungicide, bis-trifluoromethylimino-imidazolone derivatives 8815
 fungicide, triforine 396 2813 2814 3573 7212
 fungicide, triforine, fungal resistance 3572
 fungicide, triorganotin compounds/triorganolead compounds 2129
 fungicide, triorganotin derivatives 389
 fungicide, turfgrass, *Curvularia trifolii* 1873
 fungicide, turfgrass, *Sclerotinia homeocarpa*, tolerance 8796
 fungicide, turfgrass, snow mould fungi 4485
 fungicide, 0-(2-vinylphenyl)-thiolphosphate derivatives 3577 4505
 fungicide, watermelon, *Colletotrichum lagenarium* 6357
 fungicide, wheat, *Alternaria* 2005
 fungicide, wheat, *Alternaria trititina* 1102
 fungicide, wheat, *Cercospora* 8797
 fungicide, wheat, *herpotrichoides* 8797
 fungicide, wheat, *Cochliobolus sativus* 5420
 fungicide, wheat, *Fusarium oxysporum* 2801
 fungicide, wheat, *Puccinia striiformis* 7971
 fungicide, wheat, *Septoria nodorum* 7899
 fungicide, wheat, *Septoria tritici* 1894 7899 9964
 fungicide, zineb 5427
 gibberellic acid, grapevine, *Botrytis cinerea* 2010
 gram phyllosphere fungi, *Uromyces ciceris-arietini*, gram 3465
 hardwood bark compost, lupin, *Phytophthora cinnamomi* 7960
 heat treatment/drying/biological control, *Armillaria mellea* 1997
 heat treatment, grapevine, virus disease 7965
 heat treatment, potato, potato virus S 4479
 herbicide, pea, *Aphanomyces eutiches* 7968

Subject index

Plant protection(Contd),

hexachlorobenzene, resistance, *Tilletia foetida* 7204
histones, pea, *Fusarium solani* 9954
hot air treatment, sugarcane, microbial disease 7963
hot water treatment, sugarcane, microbial diseases 4478
hydrocarbons, tomato, *Agrobacterium tumefaciens* 5437
insecticide, chilli, *Bemisia tabaci*, chilli leaf curl virus 7964
insecticide, corn, maize chlorotic dwarf virus 364
insecticide, corn, maize dwarf mosaic virus 364
insecticide, potato, *Phytophthora infestans* 4501
insecticide, potato, potato leaf roll virus 1097
insecticide, sugarbeet, sugarbeet yellows virus 365
insecticide, whitefly, *Lycopersicon esculentum*, tomato leaf curl virus 1996
isoflavonoid, pigeon pea, *Helminthosporium carbonum* 3566
juniper, *Phomopsis juniperovora* 1127
kasugamycin, blasticidin S, rice, *Pyricularia oryzae*, resistance 8966
kievitone, bean, *Aphanomyces euteiches* 2000
kievitone, bean, *Fusarium solani* 2000
kievitone, bean, *Rhizoctonia solani* 2000
kinetin, cowpea, tobacco ringspot virus 8608
lentil, *Rhizoctonia solani*/*Fusarium solani*/*Pythium ultimum* 2789
lime, brussels sprout, *Plasmiodiophora brassicae* 4503
lubimin, potato, fungi 7967
lupin, *Fusarium oxysporum* 6341
lyubimin, potato, microorganisms 4495
maackiain, red clover, *Helminthosporium carbonum*/*Stemphylium botryosum*/*Stemphylium sarcinaeforme* 4496 4497
maneb, pine, *Lophodermium pinastri* 1148
maneb, Scots pine, *Endocronartium harknessii* 2039
maneb, Scots pine, *Lophodermium pinastri* 1148 3612
maneb + zinc, sorghum, *Sclerospora sorghi* 1107
mangiferin seed treatment, safflower, *Fusarium oxysporum* 7992
medicarpin, red clover, *Helminthosporium carbonum*/*Stemphylium botryosum*/*Stemphylium sarcinaeforme* 4496 4497
mercury chloride seed dressing, pea seed, *Fusarium oxysporum* 1856
meristem tip culture, ryegrass, ryegrass mosaic virus 6413
methyl-2-benzimidazole carbamate, elm, *Ceratocystis ulmi* 4534
methyl bromide, iris, *Sclerotium rolfsii* 9967
methyl bromide + pentachloronitrobenzene, iris, *Sclerotium rolfsii* 9967
microwave irradiation seed treatment, tobacco, *Erwinia carotovora* 9990
mycorrhiza, pine, *Phytophthora cinnamomi* 8850
nematicide, gladiolus, tobacco rattle virus 4480
nickel fungicide, wheat 2012
nitrogen fertilizer, *Sclerotium rolfsii* 6347
nitrogen/potassium/phosphorus fertilizer, spruce, *Fomitopsis annosa* 2846
nitrphenyl ester fungicide, fungal/plant esterase 7981
nystatin, elm, *Ceratocystis ulmi* 4534
oil emulsion, potato, potato virus Y 9953
oxadiazon, peanut, *Sclerotium rolfsii* 9957

Plant protection(Contd),

oxycarboxin 20EC, coffee, *Hemileia vastatrix* 9977
oxycarboxin, barley, *Puccinia hordei* 2003
oxytetracycline, coconut palm, lethal yellowing disease, fruit 403
oxytetracycline, palm, mycoplasma-like organism, lethal yellowing 8675
oxytetracycline, peach, mycoplasma-like organism, X-disease 6375
Panogen 15, brinjal, *Sclerotium rolfsii* 2011
Panogen 15, peanut, *Sclerotium rolfsii* 2011
partial soil sterilant, crucifer, *Plasmiodiophora brassicae* 5424
peanut, pod rot fungi 6345
penicillin, cardamom, *Corynebacterium* 8831
penicillin G seed treatment, soybean, *Bacillus subtilis* 8615
penicillin, hop, crinkle disease 7221
pentachloronitrobenzene + hydrated lime, crucifers, *Plasmiodiophora brassicae* 2811
pentachloronitrobenzene, iris, *Sclerotium rolfsii* 9967
pentachloronitrobenzene seed treatment, sugarbeet, *Rhizoctonia solani* 2034
pentachloronitrobenzene seed treatment, sugarbeet, *Sclerotium rolfsii* 2034
phaseollin, bean, *Botrytis cinerea* 3460
phaseollin, bean, *Colletotrichum lindemuthianum* 5349
phenyl mercuric acetate seed treatment, wheat, *Fusarium* 6378
phyllplane bacteria, perennial ryegrass, *Drechslera dictyoides* 7889
phytoalexin, chickpea, *Helminthosporium carbonum* 6348
phytoalexin, potato, *Phytophthora infestans* 2793
pine, *Lophodermium pinastri* 1151 1154
piperonyl butoxide, potato, potato spindle tuber viroid 9985
pisatin, pea 6350
pisatin, pea, *Erysiphe pisi* 8788
plant disease 2659
plant extracts, antifungal agent 9956
plant growth regulators, chilli, cucumber mosaic virus 3555
plant tissue culture, virus disease 9950
plantifog 160 M, pine, *Lophodermium pinastri* 1149
plantifog 160 M, Scots pine, *Lophodermium pinastri* 1149
poly-L-lysine, tobacco, tobacco mosaic virus 3535
potassium azide, sorghum, *Sclerospora sorghi* 3575
potassium chloride, oil palm, *Fusarium oxysporum* 387
potato, potato spindle tuber viroid 6284
potato, tobacco rattle virus 7928
pressure machine, tree injection 7996
Puccinia hordei, barley 1866
pyracarbolid, *Rhizoctonia solani* 3585
pyrimidine derivatives, plant protection 2020
pyroxychlor, ivy, *Phytophthora palmivora* 2745
pyroxychlor, *Pilea imperialis*, *Phytophthora parasitica* 3518
pyroxychlor seed treatment, soybean, *Phytophthora megasperma* 2030
resistance, microbial disease 9923
resmethrin, cowpea, *Erysiphe polygoni* 4500
resmethrin, crapemyrtle, *Erysiphe lagerstroemiae* 4500
resmethrin, Kalanchoe blossfeldiana, *Sphaerotheca humuli* 4500
resmethrin, rose, *Sphaerotheca pannosa* 4500
resmethrin, Zinnia, *Erysiphe cichoracearum* 4500

Subject index

Plant protection(Contd),

rice, microbial diseases 1029
 rishitin, potato, microorganisms 4495
 rishitin, potato, Phytophthora infestans 6351
 sandal, sandal spike 7241
 sanitation, elm, *Ceratocystis ulmi* 416
 Scots pine, *Lophodermium pinastri* 1151 1154
 seed dressing fungicide, BAS 3191 F 1109
 seed dressing fungicide, cowpea, *Rhizobium* 2029
 seed dressing fungicide, jute seed fungi 2E25
 seed dressing fungicide, pea, *Fusarium oxysporum* 1012
 seed dressing fungicide, radiate pine, mycorrhiza 6382
 seed dressing fungicide, wheat, *Helminthosporium sativum* 2032
 seed treatment, Brussels sprout, *Xanthomonas campestris* 8830
 seed treatment, carbamoyl benzimidazole derivatives 7988
 seed treatment fungicide, barley, *Ustilago nuda* 6377
 seed treatment fungicide, bean 1859
 seed treatment fungicide, bottle gourd 8682
 seed treatment fungicide, cabbage seed, *Phoma lingam* 8837
 seed treatment fungicide, cotton, *Pythium ultimum* 9992
 seed treatment fungicide, cotton, *Rhizoctonia solani* 9992
 seed treatment fungicide, Lablab, *Colletotrichum lindemuthianum* 2824
 seed treatment fungicide, lentil, *Sclerotium rolfsii* 4523
 seed treatment fungicide, oat, *Fusarium culmorum*/*Drechslera sorokiniana*/*Rhizoctonia solani* 1120
 seed treatment fungicide, okra, *Rhizoctonia solani* 9993
 seed treatment fungicide, potato, *Rhizoctonia solani* 2033
 seed treatment fungicide, safflower, *Puccinia carthami* 9888
 seed treatment fungicide, safflower seed, mycoflora 8838
 seed treatment fungicide, soybean 1859
 seed treatment fungicide, wheat, *Fusarium culmorum*/*Drechslera sorokiniana*/*Rhizoctonia solani* 1120
 seed treatment fungistat, benzimidazole derivative + 2-(thiocyanomethylthio)-benzothiazole 9994
 sodium dodecyl sulphate, bean, tobacco mosaic virus 5435
 sodium dodecyl sulphate, tobacco, tobacco mosaic virus 5435
 soil antifungal agent, flax, *Fusarium oxysporum* 366
 soil fertilizer, coriander, *Protomyces macrosporus* 3574
 soil fumigant, tobacco, *Phytophthora nicotianae* 9971
 soil fungistasis, flax, *Fusarium oxysporum* 10053
 soil potassium, melon, *Fusarium oxysporum* 7923
 soil sterilant, cabbage, *Plasmidiophora brassicae* 6358
 soil temperature/flooding, safflower, *Puccinia carthami* 9889
 soil treatment, okra, *Fusarium oxysporum*/*Fusarium solani*/*Fusarium roseum*/*Pythium* 9969
 soil treatment, ponderosa pine, *Fusarium* 6391
 soil treatment, ponderosa pine, *Pythium* 6391
 soil urea, cotton, *Verticillium dahliae* 4520

Plant protection(Contd),

spinach, fungal diseases 1951
 squash, *Ceratobasidium* 4416
 squash, *Fusarium oxysporum* 4416
 squash, *Fusarium solani* 4416
 squash, microbial diseases 7966
 squash, *Pythium aphanidermatum* 4416
 squash, *Pythium irregulare* 4416
 squash, *Rhizoctonia solani* 4416
 strawberry, *Xanthomonas fragariae* 4417
 streptomycin, apple, *Erwinia amylovora* 2028 2822
 streptomycin, pear, *Erwinia amylovora* 2822
 streptomycin seed treatment, bean, *Pseudomonas phaseolicola* 406
 sugarbeet, sugarbeet virus yellows 7201
 sugarcane, *Ustilago scitaminea* 5332 6336
 sulphur fungicide, pea, *Erysiphe polygoni* 8812
 sulphur fungicide, sugarbeet, *Erysiphe polygoni* 1108
 sulphuric acid scarification seed treatment, *Stylosanthes*, *Colletotrichum gloeosporioides* + fungi 5314
 sweet orange, citrus greening, mycoplasma-like organism 5355
 teak, *Rigidoporus lignosus* 1158
 N-tetrachloroethyl-thio-4-cyclohexene-1,2-dicarboximide, onion, *Peronospora destructor* 8709
 tetracycline, brinjal, mycoplasma, little leaf 8829
 tetracycline, citrus greening 9986
 tetracycline, hop, crinkle disease 7221
 tetracycline, jujube, witches' broom disease 315
 tetracyclines, coconut palm, Kaikope disease 2821
 thermosanitation 3563
 thiabendazole + iodine complex, fungicide 5432
 thiabendazole + N-methyl-2-pyrrolidone, fungicide 5433
 thiabendazole, peanut, *Cercospora personata* 4516
 thiabendazole, potato, *Phoma exigua* 7947
 thiabendazole, sweetpotato, *Fusarium oxysporum* 6373
 1,3,4-thiadiazole urea derivatives, *Pythium aphanidermatum* 3582
 tissue culture, tobacco, stolbur, mycoplasma-like organism 367
 tissue culture, tomato, stolbur 1098
 tomato, *Alternaria solani* 5392
 tomato, big bud 5392
 tomato, *Botrytis cinerea* 5392
 tomato, *Corynebacterium michiganense* 5392
 tomato, *Fulvia fulva* 5392
 tomato, *Fusarium oxysporum* 5392
 tomato, *Lycopersicon esculentum* 5392
 tomato, *Phoma destructiva* 5392
 tomato, *Phytophthora* 5392
 tomato, *Phytophthora infestans* 5392
 tomato, pith rot 5392
 tomato, potato virus Y 5392
 tomato, *Pseudomonas solanacearum* 5392
 tomato, *Pseudomonas tomato* 5392
 tomato, *Pythium* 5392
 tomato, *Rhizoctonia solani* 5392
 tomato, *Sclerotinia sclerotiorum* 5392
 tomato, *Sclerotium rolfsii* 5392 9951
 tomato, *Septoria lycopersici* 5392
 tomato, *Stemphylium solani* 5392
 tomato, tobacco mosaic virus 5392 7940
 tomato, tomato spotted wilt virus 5392
 tomato, *Verticillium dahliae* 5392
 tomato, *Xanthomonas vesicatoria* 5392
 tomato xylem extract, tomato, *Fusarium oxysporum* 8781

Subject index

Plant protection(Contd),

topsin M, sugarbeet, *Cercospora beticola* 8823
 tree bark extracts, marrow, watermelon mosaic virus 5434
 triadimefon, *Ustilago avenae* 385
 trifluralin, pea, *Aphanomyces eutiches* 6353
 triflorine, apple, *Podosphaera leucotricha* 3586
 triflorine, apple, *Venturia inaequalis* 3586
 triflorine seed treatment, barley, *Erysiphe graminis hordei* 2826
 triton X, bean, tobacco mosaic virus 5435
 triton X, tobacco, tobacco mosaic virus 5435
 Tween 80, bean, tobacco mosaic virus 5435
 Tween 80, tobacco, tobacco mosaic virus 5435
 virazole, tobacco, potato virus X 7985
 wheat, microbial disease 6232
 wheat, Typhula + Fusarium snow mould 9805
 wyerone epoxide, broad bean, *Botrytis cinerea*/*Botrytis fabae* 373
 zinc-maneb, wheat, *Puccinia graminis tritici* 8811
 zinc-maneb, wheat, *Puccinia recondita tritici* 8811
 zinc-maneb, wheat, *Septoria nodorum* 8811
 zineb, *Alternaria cucumerina* spore leachates 1106
 zineb, barley, *Puccinia hordei* 2003
Plant protection: Antifungal & fungicidal agents,
 368-400, 1099-1116, 1998-2024, 2790-2818, 3564-3589, 4483-4520, 5416-5433, 6348-6373, 7202-7218, 7967-7983, 8785-8824, 9954-9982
Plant protection: Antimicrobial & microbiocidal agents,
 401-405, 1117-1119, 2025-2028, 2819-2823, 3590-3597, 4521, 4522, 5434-5439, 6374-6376, 7219-7224, 7984-7987, 8825-8835, 9983-9989
Plant protection: General,
 354-367, 1092-1098, 1977-1997, 2775-2789, 3546-3563, 4447-4482, 5402-5415, 6328-6347, 7194-7201, 7949-7966, 8762-8784, 9923-9953
Plant protection: Seed dressings,
 406, 407, 1120, 2029-2034, 2824-2826, 3598, 4523-4526, 5440, 6377-6379, 7225, 7988-7993, 8836-8839, 9990-9994
Plant tissue,
 maceration stimulating factor, *Aspergillus japonicus* 2531
Plantago,
Oidium 252
Plantago media,
 clovers yellow type disease, mycoplasma-like organism 4295
Plantain,
Oidium 252
Plantanus,
Ceratocystis fimbriata, fungicide 5462
Planthopper,
 Phleum green stripe virus, timothy grass/cereal 1871
Plantifog 160 M,
Lophodermium pinastri, pine 1146 1149
Lophodermium pinastri, Scots pine 1150
Plantifog CZ,
Lophodermium pinastri, pine 1146
Plantvax,
Alternaria solani, potato 5418
Ceratocystis ulmi, elm 2044
Ceratitis fici, fig 5421
Fusarium oxysporum 4484
Melampsora larici-populina, poplar 2047
Physoderma maydis, corn 8793
 seed treatment, *Sclerotium rolfsii*, lentil 4523
Xanthomonas malvacearum, cotton 3595
Plantvax 1E,
Puccinia sorghi, corn 9963

Plantvax 75W,
Fusarium oxysporum, ginger 2007
Plaque assay,
 microculture, liquid antibody, viruses 10626
Plaque, dental,
 see Dental plaque
Plaque reduction test,
 antiviral agent 3711
Plaque titration,
 microculture, viruses 10639
Plasma,
 bacterial endotoxin, spectrophotometry 3440
Plasma membrane,
Dictyostelium discoideum, purification, equilibrium sucrose density centrifugation 5018
Plasmid,
 cryptic, *Haemophilus influenzae* 10117
 DNA, *Pseudomonas putida* 5117
Escherichia coli, DNA 3336
Escherichia coli, tellurite/tellurate resistance 3668
 microorganisms 5873
 microorganisms, genetic recombination 10513
Pseudomonas 5528
Pseudomonas aeruginosa, carbenicillin resistance 10123
Pseudomonas aeruginosa, tellurite/tellurate resistance 3668
Plasmocoagulase,
Staphylococcus aureus 3310
Plasmodiophora,
 plant disease 2658
Plasmodiophora brassicae,
 Brassica 6256
 Brassica, resistance testing 6339
 brussels sprout, lime 4503
 cabbage 6256
 cabbage, fungicide 2803 2804
 cabbage, resistance 4460 4461
 cabbage, soil sterilant 6358
 cauliflower, resistance 4460
 crucifer, partial soil sterilant 5424
 crucifer, pentachloronitrobenzene + hydrated lime 2811
 rape 6293
Plasmopara,
 aniline derivatives, plant protection 6365
 triorganotin compounds/triorganolead compounds 2129
Plasmopara halstedii,
 sunflower 8734 9943
 sunflower, resistance 6344
Plasmopara viticola,
 furcic amide derivatives, plant protection 8813
 grapevine 314 3513
 grapevine, aminomethylenemalononitrile derivatives 3578
 grapevine, 3-cyanamino-2,6-dinitroaniline derivatives 9976
 grapevine, 2-cyanoacetamide derivatives 9974
 grapevine, electron microscopy 5374 5375
 grapevine, imidazo-pyrimidine derivatives 4512
 grapevine, triazinedione derivatives 1119
 imidazolidine-1,4-dione derivatives 2135
 isothiazolopyridinone derivatives 2975
 melon, fungal germanium 1694
 N-phenyl maleic imide derivatives 393
 phospholane/phosphite derivatives 3576
 phosphonate derivatives, plant protection 8809
 plant disease 2656
 pyridine derivatives 2823
 pyrimidine derivatives 2020
 triazo-benzothiazole derivatives, plant protection 7216
 vine, diphenylamine derivatives 392

Subject index

- Plastic,**
fungicide, quaternary ammonium compound 2961
- Plastic bag,**
autoclave sterilisation 7352
- Plastic package,**
ophthalmic medicament 5612
- Plastic packaging,**
degradation accelerators 3370
- Plastic waste,**
hospital, steriliser 1285
- Plastic wrapping,**
meat, bacteriology 8545
- Plastics,**
degradation, fungal 2553
microbial degradation 5195
- Plastics container,**
food packaging 7047
- Platanus,**
Aureobasidium pullulans 1157
Ceratocystis fimbriata 1156
Gnomonia platani, trace metal leaf pollutants 7239
- Platanus occidentalis,**
Gnomonia platani, benomyl 10008
- Plate clearing assay,**
Trichoderma viride, cellulase 4075
- Plate counter,**
Artek, milk 914
- Plate heat exchanger,**
food pasteurisation 2605
- Plate loop count,**
orange juice 194
- Plate test,**
Brucella canis, dog 2375
- Platenolide I,**
structure, platenomycin 7443
- Platenolide II,**
structure, platenomycin 7443
- Platenomycin,**
platenolide I, platenolide II, structure 7443
- Platymycin A,**
Streptosporangium violaceochromogenes,
antibacterial agent/antitumour antibiotic 9148
- Platymycin B,**
Streptosporangium violaceochromogenes,
antibacterial agent/antitumour antibiotic 9148
- Pleosphaerulina sojicola,**
soybean 6196
- Pleospora,**
8291
barley 6204
- Pleospora bjoerlingii,**
sugarbeet, fungicide seed treatment 8839
- Pleospora infectoria,**
betel 1912
bhendi 1909
cowpea seed 1848
Ipomoea spiniaria 1909
pectolytic enzymes 7643
sannhemp 7115
- Plesiomonas shigelloides,**
API test system/Enterotube test
system/Pathotec test system 10558
sulohanilamide-metal complexes 10148
- Pleuromutilin,**
derivatives, antibacterial agent 5755 5756
derivatives, antibacterial agent, animal feed 10400
- Pleurophragmium,**
oil palm kernels 4220
- Pleurotus flabellatus,**
food 2594
- Pleurotus ostreatus,**
lignocellulosic waste degradation, protein,
cattle feed 10448
submerged culture, exponential growth
kinetics 7585
- Pleurotus sapidus,**
culture medium, lipid 2394
- Pleurotus tuber-regium,**
food 9603
- Plodia interpunctella,**
Bacillus thuringiensis insecticide 2541
- Plum,**
Agrobacterium tumefaciens, biological control 401 7219
Cytospora leucostoma 9844
Japanese, Tranzschelia pruni-spinosae 9820
microbial diseases 9817
myrobalan, Agrobacterium tumefaciens 2727
plum pox virus 8671
Pseudomonas syringae 9844
resistance, Monilia 4455
Sclerotinia laxa 1900
Tranzschelia pruni-spinosae 9820
- Plum bark split virus,**
stone fruit trees 9817
- Plum line-pattern virus,**
dodder transmission 1610
- Plum pox virus,**
plum 8671
purification 2401
- Plumbagin,**
antibacterial agent 2109
- Plumbago zeylanica,**
antibacterial agent/antifungal agent 6523
plumbagin, antibacterial agent 2109
- Plumbemycin A,**
Streptomyces plumbeus, structure 9339
- Plumbemycin B,**
Streptomyces plumbeus, structure 9339
- Plumeria acutifolia,**
Alternaria alternata 1937
- Plumeria rubra,**
Phyllosticta helleborella 1836
- Plutella xylostella,**
granulosis virus insecticide 9488
- Plywood,**
preservative, decay fungi 10032
- PM2 virus,**
long-chain alcohols 5585
- Pneumococcus,**
see Diplococcus pneumoniae
- Poa annua,**
Curvularia trifolii 1873
snow mould fungi, fungicide 4485
- Poa caespitosa,**
Urocystis agropyri 4320
Urocystis tritici 4320
- Poa pratensis,**
Corticium fuciforme 8641
Drechslera poae 8642
fungal diseases 8641
Fusarium oxysporum 8641
Helminthosporium poae 8641
nitrogen fixation, nitrogenase 4597
snow mould 1872
snow mould fungi, fungicide 4485
Urocystis agropyri 6211
Ustilago striiformis 6211
- Pod blight,**
Diaporthe, soybean 6196
- Pod rot,**
Colletotrichum dematium, soybean 4311
fungi, peanut 6192
fungi, peanut, plant protection 6345
Fusarium moniliforme, soybean 4311
Fusarium semitectum, soybean 4311
Monilia roleri, cacao, plant protection 7144
- Pod spot,**
Nigrospora sphaerica, lablab bean, pectolytic
enzymes 7643
Pleospora infectoria, pea, pectolytic enzymes 7643
- Podocarpic acid,**
Dacrydium heartshake, antibacterial
agent/antifungal agent 7234

Subject index

- odophyllum**,
extracts, antibacterial agent 10141
- odospermum**,
Puccinia podospermi 6250
- odosphaera**,
powdery mildew, plants 5298
1-propyl-1,2,4-triazolyl derivatives 2018
triazolyl-0-N-acetal derivatives, plant
protection 394
- odosphaera leucotricha**,
apple 2664 4290 4291 4292
apple, 2-aminopyrimidine derivatives 395
apple, benomyl + oil adjuvant 2791
apple, diphenylamine derivatives 392
apple, diphenyl pyrazolium derivatives 1114
apple, fungicide 1101 2795 2796
apple, imidazo-pyrimidine derivatives 4512
apple, pyrazolium derivatives 4511 2812
apple, tri-2-norbornyltin derivatives 6363
apple, thiazinedione derivatives 1119
apple, triforine 3586
crabapple, resistance 3553
imidazolidine-1,4-dione derivatives 2135
peach 8669
pear, diphenyl pyrazolium derivatives 1114
pear, pyrazolium derivatives 4511
pyridine derivatives 2823
pyrimidine derivatives 2020
thiazinium derivatives 3725
triazole derivatives, plant protection 7207
7208
- odospora anserina**,
tiamulin, senescence prevention 5765
- oison hemlock**,
carrot thin leaf virus 8684
- okkah boeng**,
Gibberella moniliformis, sugarcane,
resistance 8771
- olarography**,
cefamandole nafate 8134
isoxazolium derivatives 8975
tetracyclines 3053
- olemonium caeruleum**,
cucumber mosaic virus 8676
- olomyelitis virus**,
caffeic acid 8997
- oliovirus**,
acridine derivative 1250
activated sludge 6673
activated sludge waste treatment 8229
aggregation, water 4869 4870
chlorpromazine 1252
disinfectant 4673
drinking water, organic flocculation 3130
effluent, soil disposal, vegetable crops
4561
estuarine water 1505
estuarine water, filtration + aluminium
hydroxide flocculation 9224
estuarine water, pleated membrane filter
3900
food 124
formaldehyde 5523
fruit extract 2962
grape/grape juice/wine 4672
membrane chromatography 4005
N-methyl-N-arylthiourea derivatives 4686
miglillin 2262
resistance, formaldehyde 5523
river water 6722
sea water 1505
sewage 7486 9201 10460
sewage, Aquella virus concentrator 3875
sewage, calcium hydroxide 1462
sewage effluent, soil 3108
- Poliovirus(Contd)**,
sewage, gauze pad 6709
sewage, ozone 697
sewage sludge, heat treatment +
gamma-irradiation 9302
sewage sludge, soil disposal, vegetable crops
4561
sewage sludge, thermoradiation 3104
sewage, talc + Celite/polyelectrolyte 60
3109
shellfish 4215
sludge sewage 2300
soil, wastewater disposal 4606
soluble laundry bag, hospital hygiene 7518
swimming pool 3143
tap water, Aquella virus concentrator 3896
tap water, pleated cartridge filter
regeneration 6716
vegetable, sewage sludge/effluent spray
irrigation 5784
wastewater, disinfectant 5781
wastewater sludge, heat treatment 2301
wastewater sludge, viricide, ammonia 10459
water 9223
water, chlorination 1500
water, gauze pad 6709
water, magnetite 3892
- Poliovirus vaccine**,
6664
cell culture 655
potency 4835
- Polish**,
antibacterial agent/antifungal agent,
alkylphenols 531
Azotobacter indicus heteropolysaccharide-7
1681
- Pollaccia radiosa**,
aspen 2046
- Pollaccia saliciperda**,
willow 10018
- Pollen**,
bromegrass mosaic virus, plant disease 7103
plant leaf mycoflora 2660
southern bean mosaic virus, plant disease
7103
tobacco mosaic virus, plant disease 7103
- Polluted water**,
biological oxygen demand 2333
dissolved oxygen 2333
drinking, coliform/faecal Streptococcus 2304
purification 2327
Salmonella, enrichment medium 10476
- Pollution**,
air-borne viruses, wastewater treatment 696
air, containment system, hepatitis virus
zonal centrifugation 2288
air, food industry 3840
air, indicator, Cladonia stellaris 3841
air, microbial, high-vacuum steam sterilizer
3735
air, plant disease 7662
air, sulphur dioxide, lichen/Rhytisma
acerinum indicator 4985
air, viruses, wastewater treatment,
coliphage/coliforms 7484
bacterial, drinking water 3897 7496
bacterial, haemodialysis rinsing solution
3128
cyanide 2536
environmental, microbial aerosol 671
environmental, Salmonella 3095 8209
environmental, spacecraft Viking 6805
estuarine water, coliform 721
estuarine water, hydrocarbons, microbial
degradation 1186
food, wastewater 8465
fungal, optical oevic 4851
ice-covered river water, faecal indicator
bacteria 3132

Subject index

Pollution(Contd),

- lake water, *amercium-241*, *Aeromonas hydrophila* 4862
- lake water, bacteriology 6724
- lake water, gasoline, microbial deoradation 8940
- microbial, industrial product 4848
- river water 2338 4877
- river water, indicator bacteria 8242
- river water, microorganisms 719
- sea water 2340 5003 8244
- sea water, bacteria 4887 9227
- sea water, hydrocarbon, microbial degradation 7461
- sea water, oil, microbial degradation 1185
- sea water, petroleum, bacterial degradation 480
- sea water, sea salt 10501
- water 2414 10435
- water, coliforms 3876
- water, gasoline, microbial degradation 481
- water, microbiological indicators 2334 2335 2334 2337
- water, sewage disposal hygiene 7494 7495

Pollution indicator,

- Candida albicans*, sea water 2339

Poly(7-deazainosinic

- acid)-poly(5-bromocytidylic acid), antiviral agent, interferon 5583

Poly(7-deazainosinic acid)-polycytidylic acid,

- antiviral agent, interferon 5583

Poly-L-arginine,

- tobacco mosaic virus 3535

Poly-beta-hydroxybutyrate,

- Zoogloea ramigera*, poly-beta-hydroxybutyrate synthase 4143

Poly-beta-hydroxybutyrate synthase,

- Zoogloea ramigera*, poly-beta-hydroxybutyrate 4143

Poly-beta-hydroxybutyric acid,

- Hydrogenomonas*, animal feed 6519
- Hydrogenomonas* protein, animal feed 6098

Poly-L-lysine,

- tobacco mosaic virus 3535

Polyacrylamide gel,

- Escherichia coli* nitrate reductase immobilisation 8375
- Escherichia coli* penicillin amidase immobilisation 8380
- immobilised *Lactobacillus casei*, malic acid decarboxylase, L-malic acid 7636
- Pseudomonas putida* urocanase 4113
- Pseudomonas testosteroni* urocanase 4113
- Rhodospirillum rubrum* chromatophores immobilization 2415

yeast glucose-6-phosphate dehydrogenase

- immobilisation 5953
- yeast hexokinase immobilisation 5953

Polyacrylamide gel electrophoresis,

- Clostridium perfringens* enterotoxin 9732
- Escherichia coli* DNA 6938
- potato spindle tuber viroid, potato 6284

Polyacrylamide gel isoelectric focusing,

- Mycoplasma* proteins 3211

Polyacrylic acid,

- microbial enzymes 8344

Polyacrylic bone cement,

- erythromycin + colistin, antibacterial agent 3011

Polyacrylonitrile,

- Streptomyces phaeochromogenes* glucose isomerase immobilisation 5952

Polyadenylase,

- Escherichia coli* 4105

Polyadenylic acid polymerase,

- Rhodospirillum rubrum* 7660

Polyalthia longifolia,

- Phomopsis pustulata* 1836

Polyamide,

- microbial deoradation 5195

Polyamine,

- Escherichia coli*, antibiotics resistance 2795
- Salmonella typhi*, antibiotics resistance 2095

Polyangium celluloseum,

- ambruticin, antifungal agent/antibacterial agent 10251
- arid soil 2858

Polyanthus tuberosa,

- leaf culture, *Sclerotium rolfsii* 6799
- Sclerotium rolfsii*, fungicide 8799

Polycaprolactone,

- degradation, *Penicillium* 1712

Polychlorinated biphenyl,

- Aspergillus flavus* 4576
- estuarine microorganisms 724

Polycytidylic acid-polyguanydylic inosinic acid

- interferon/antiviral agent 5582

Poly(D-beta-hydroxybutyrate),

- Azotobacter vinelandii* 4142

Polydimethylsiloxane,

- foam breaker, *Saccharomyces cerevisiae*, brewing 5173

Polyelectrolyte 60,

- poliovirus, sewage 3109

Polyene antibiotic,

- Actinomyces roseoflavus* 4747 5619
- Actinomyces streptomycini* 4822
- Actinomycetes* 4822
- antifungal agent 3759
- assay 3759
- assay, spectrophotometry 9105
- Candida albicans* 565
- hemiketal structure 5703
- mass spectroscopy 7264
- metal complexes, antifungal agent 1376
- Neurospora crassa*, sterols 5647
- resistance, *Candida albicans* 4639

Polyene macrolide antibiotic,

- 4746
- Streptomyces*, fatty acid 4748

Polyester,

- microbial deoradation 7709

Polyester fibre industry waste,

- non-ionic surfactant, microbial degradation, activated sludge 3861

Polyether antibiotic,

- numbering system 1384

Polyethoxyalkyl phenol,

- Staphylococcus aureus* 10154

Polyethoxylate nonionic surfactant,

- microbial degradation 115
- microbial degradation, assay 7710

Polyethylene,

- aseptic packaging, medical instrument 2161
- microbial degradation 4178

Polyethylene adipate-degrading enzyme,

- Penicillium* 7647

Polyethylene glycol,

- avian encephalomyelitis virus precipitation 10627
- degradation, sewage bacteria 6022
- foot-and-mouth disease virus 5868
- hepatitis B virus antigen 657
- Japanese encephalitis virus precipitation 5869
- mycobacteriophage 2398
- phage concentration 6803
- phage precipitation 7588
- rice dwarf virus, rice 5870

Polyethylene glycol-pronase concentration,

- Rous sarcoma virus, tissue culture 4012

Polyethylene glycol-sodium chloride,

- centrifugation, vegetable marrow mosaic virus 4014

Subject index

- polyethoxyalkyl phenol,**
Staphylococcus aureus, optical density 10155
polygalacturonase,
 apple juice-clarifying, *Aspergillus awamori* 5082
 apple juice-clarifying, *Aspergillus foetidus* 5082
Aspergillus niger, citric acid fermentation flow-off 8384
Ceratocystis ulmi, elm 3619
Cercospora arachidicola 6871
endo-, *Verticillium dahliae*, plant disease 2666
Erwinia aroideae 6913
Fomes annosus, Norway spruce root constituents 2845
Fusarium coeruleum, potato 8718
Fusarium oxysporum, plant cell walls 5969
Fusarium oxysporum, potassium, melon wilt 7154 7922
Fusarium sulphureum, potato 8718
Geotrichum candidum, sweet orange post-harvest decay 9919
Gloeosporium papayae, papaya post-harvest decay 6323
Lasiodiplodia theobromae, sweet potato post-harvest decay 353
 nodulation, alfalfa, *Rhizobium* 3648
Pseudomonas viridiflava 5081
Trichoderma koningii 6872
Trichoderma pseudokoningii 6872
Verticillium albo-atrum, plant cell walls 5969
ndo-Polygalacturonase,
Aspergillus awamori 5082
Aspergillus foetidus 5082
Aspergillus niger 3302
Colletotrichum coccodes, tomato 6309
Curvularia lunata 5083
Macrophomina phaseolina 5084
 microbial 5041
Nigrospora sphaerica 7643
Pleospora infectoria 7643
Rhizoctonia fragariae 9428
Sclerotinia sclerotiorum, bean 4303
Verticillium dahliae, cotton 6263
xo-Polygalacturonase,
Aspergillus niger 3302
Sclerotinia sclerotiorum 9429
Sclerotinia sclerotiorum, bean 4303
polygalacturonate lyase,
Bacillus subtilis 5086
ndo-Polygalacturonate lyase,
 microbial 5041
xo-Polygalacturonate lyase,
Fusarium culmorum 7648
polygalacturonate methyl transeliminase,
Erwinia aroideae 6913
ndo-Polygalacturonate trans eliminase,
Erwinia carotovora, potato 4102
polygalacturonate transeliminase,
Fusarium oxysporum, potassium, melon wilt 7154 7922
Gloeosporium papayae, papaya post-harvest decay 6323
Rhizoctonia bataticola, okra 1070
polygonum capitatum,
Puccinia polygoni-amphibi 997
polygonum dumetorum,
Puccinia polygoni-amphibi 1938
polygonum glabrum,
Uredo khandalensis 1074
polygonum hydropiper,
Leveillula 4297
polyguanidylic inosinic acid-polycytidylic acid
 interferon/antiviral agent 5582
Polyguanylic acid,
 murine leukaemia virus 3715
Polyinosinic acid-poly(5-bromocytidylic acid),
 antiviral agent, interferon 5583
Polyinosinic acid-polycytidylic acid,
 + antibiotics, interferon 10180
 antiviral agent, interferon 5583
 herpes simplex virus 8089
 interferon, antiviral agent 8999
Mycobacterium leprae 4652
Polymer,
 antibacterial agent, penicillins 3753
 antifungal agent/antibacterial agent, quaternary ammonium salt 470
 brewing yeast, fixation, beer 6439
 flocculant, *Aspergillus sojae* 2533
 food packaging, bacteria 8531
 insoluble, microbial degradation 116
 metal-binding surface-active, marine bacteria 460
 Zoogloea/activated sludge 693
Polymer-polypeptide,
 + immunoglobulin 3945
Polymeric film,
 + fungicide, plant protection 374
Polymerization,
 amoxycillin 9080 9081
 ampicillin 9080
 cycloacillin 9080
 epicillin 9080
 pesticide, *Rhizoctonia praticola* phenol oxidase, soil 7278
 phenols, *Rhizoctonia praticola* phenol oxidase 3305
Polyethylgalacturonase,
Gloeosporium papayae, papaya post-harvest decay 6323
Sclerotinia sclerotiorum, crucifer 3508
endo-Polyethylgalacturonase,
Aspergillus awamori 5082
Aspergillus foetidus 5082
Curvularia lunata 5083
Macrophomina phaseolina 5084
Polyethylmethacrylates,
 adjuvant, influenza virus vaccine 4833
Polymerphonuclear leukocyte,
 rabbit, *Pseudomonas aeruginosa* phagocytosis, antibiotics 2998
Polymyxa betae,
 sugarbeet 5391
Polymyxa graminis,
 cereal virus diseases 2684
 soil, wheat, wheat spindle streak mosaic virus 8650
Polymyxin,
 antibacterial agent 6546
Bacillus 9054
Francisella tularensis 1305
 resistance, *Vibrio cholerae* 2100
Streptococcus 3751
Polymyxin B,
 + amikacin 4794
 antibacterial agent 7415
 antibacterial agent, antibiotic sensitivity testing 9035
Bacillus polymyxa 4778 5691
Coccidioides immitis 620
 derivatives, antibacterial agent 9102
Enterobacteriaceae, antibiotic sensitivity testing 4720
Escherichia coli 3671
 polyanionic detergents 7389
Proteus 4725 4727
Pseudomonas aeruginosa 3748 3749 4726 4727
Pseudomonas aeruginosa, antibiotic sensitivity testing 4720
Pseudomonas aeruginosa phagocytosis, rabbit polymorphonuclear leukocytes 2998
 pyocin, *Pseudomonas aeruginosa* 8191

Subject index

Polymyxin B(Contd),

- resistance, *Escherichia coli* 3671
- Serratia marcescens* 10323
- Serratia marcescens*, outer membrane phosphatase 9103
- Serratia marcescens* phosphatase 3306 3307
- Serratia marcescens* polysaccharide 5692
- Shigella dysenteriae* 10120
- veterinary topical product, antibacterial agent/antifungal agent 2970
- Vibrio cholerae*/*Vibrio cholerae* phosphatidylethanolamine 3048
- vitamins/nicotinamide/p-aminobenzoic acid 2991

Polymyxin E,

see Colistin

Polymyxin M,

- Bacillus polymyxa* 9101
- Salmonella typhimurium* 10246
- Shigella dysenteriae* 10120

Polymyxin-methylene-sulphonic acid,

- Acinetobacter* 4779

Polymyxin S1,

- Bacillus polymyxa*, antibacterial agent 10324

Polymyxin T1,

- Bacillus polymyxa*, antibacterial agent 10324

Polymyxins,

- Acinetobacter* 4779
- antibacterial agent 2969
- Enterobacteriaceae 6565
- polyanionic detergents 8128
- Proteus* 4725 4727
- Pseudomonas aeruginosa* 4727
- Streptococcus faecalis* 3003

Polynucleotide phosphorylase,

- Bacillus amyloliquefaciens* 7649
- Micrococcus luteus*, RNA degradation 7712

Polyoma virus,

- long-chain alcohols 5585
- radioactive labelling, chloramine T iodination 9300

Polyoxin B,

- phytopathogenic bacteria/fungi, plant protection 7222

Polyoxins,

9501

- Streptomyces cacaoi* 10401
- Streptomyces cacaoi*, carbamoylpolyoxamic acid 10360
- Streptomyces cacaoi*, 5-carboxyuracil
- Streptomyces cacaoi* 3075

Polyoxymethyleneoxazolidine,

- bicyclic, fungicide/bactericide 471
- monocyclic, bactericide/fungicide 2090

Polypeptide,

- bacterial, + immunoglobulin 3949
- Rhodospirillum rubrum* 4039

Polyphosphate,

- chicken, *Salmonella* 4239
- meat product, hydrolysis,
- Micrococcus*/*Lactobacillus* 2585

Polyporus,

- microorganisms 2536

Polyporus adustus,

- cellulose pulp 1707

Polyporus anceps,

- lignin degradation 6403

Polyporus betulinus,

- birch, scanning electron microscopy 3616

Polyporus circinata,

- hydroxycinnamic acid degradation 121

Polyporus dichrous,

- esterase, cephalosporins 8132
- lignin degradation 6403

Polyporus hirsutus,

- cellulose pulp 1707

Polyporus montanus,

- conifers 5446

Polyporus oregonensis,

- conifers 5446

Polyporus pergamenus,

- Rosaceae 5297

Polyporus resinosus,

- cellulose pulp 1707
- conifers 5446
- lignin degradation 6403

Polyporus schweinitzii,

- Douglas fir 3607
- Scots pine 2038

Polyporus sericeomollis,

- conifers 5446

Polyporus tomentosus,

- black spruce 1125
- conifers 5446
- lodgepole pine 1125
- ponderosa pine 1125
- tamarack 1125
- white spruce 1125

Polyporus versicolor,

- catecholase 6867
- cellulose pulp 1707
- culture 6867
- esterase, cephalosporins 8132
- lignin degradation 6403
- submerged culture, exponential growth kinetics 7585

Polyporus zonatus,

- cellulose pulp 1707

Polypropylene drinking straw,

- Agaricus bisporus* preservation, liquid nitrogen 4708

Polypropylene glycol,

- degradation, activated sludge/soil bacteria 9530

Polyram combi,

- Lophodermium pinastri*, pine 1146
- Melampsora larici-populina*, poplar 2047

Polyribonucleosinic:polyribocytidylic acid,

- interferon 520

Polyribonucleic acid,

- antiviral agent 3714

Polyribonucleotide,

- antiviral agent 3714

Polysaccharide,

- Agrobacterium*, dairy product 6044
- alginate, *Azotobacter vinelandii* 5983
- alginate, *Pseudomonas aeruginosa* 5983
- Alkaligenes, dairy product 6044
- Arthrobacter viscosus* 2515
- Azotobacter indicus* 1681
- Bacillus cereus*, guar gum degradation 5191
- Bacillus polymyxa*, dentifrice 2510
- Brachypodium ramosum* rhizosphere bacteria 3328
- capsular, *Haemophilus influenzae* 5110
- carbohydrate waste, activated sludge treatment 6690
- Coriolus versicolor*, antitumour agent 70 71
- coryneform bacteria, industrial water system 9214
- degradation, microbial dextranase 6980
- endotoxin-free, *Neisseria meningitidis*, vaccine 7673
- Escherichia coli* K antigen, agarose electrophoresis + Cetavlon precipitation 3178
- Festuca arundinacea* rhizosphere bacteria 3329
- glucan, *Ruminococcus albus* 5986
- hetero-, *Azotobacter indicus*, oil well drilling fluid 9446
- hetero-, *Xanthomonas*, thickening agent 2516
- Klebsiella* 2513
- lipo-, *Yersinia pseudotuberculosis* 64
- marine bacterium, antitumour agent 9455
- Methylomonas methanolica* 5884
- microbial, hydrocarbon 3662
- microbial, immobilisation, concanavalin A-magnetite 8305
- Mycobacterium lacticum*, hexadecane 2918

Subject index

olysaccharide(Contd),

- Mycobacterium lacticum, hexadecane 2919
- Neisseria meningitidis 5984
- Rhinocladia mansonii 5985
- Rhizobium meliloti, structure 9447
- Serratia marcescens, polymyxin B 5692
- Streptococcus salivarius 2514
- Vibrio, antitumour agent 72 8415
- xanthan gum, classification, microbial protease 5111
- xanthan, Xanthomonas campestris, plant disease 6936
- xanthan, Xanthomonas, plant disease 6936
- Xanthomonas 374
- Xanthomonas campestris 1684 2515 2517
- Xanthomonas campestris, + binders/proteins 8410
- Xanthomonas campestris, cottage cheese 1740
- Xanthomonas, cheese 9561
- Xanthomonas, clarification, microbial protease 3332
- Xanthomonas, fertiliser 1685
- Xanthomonas fuscans 8411
- Xanthomonas S19 2518
- yeast cell wall, alkane, calf feed 6097

olysorbate 80,

- Pseudomonas aeruginosa, benzalkonium chloride, electron microscopy 6496

olysphondylium pallidum,

- soil, isolation methods 8016

olystictus sanguineus,

- plywood, preservative 10032

olystictus versicolor,

- benzothiazelin-3-one derivatives 534
- benzothiazolinone + quaternary ammonium compound 4627
- Dacrydium heartshake podocarpic acid 7234
- European beech bark degradation 4552
- Norway spruce bark degradation 4552
- wood preservative assay 10031

olystigma ochraceum,

- almond 9823

olystyrene,

- microbial degradation 5195

olystyrene microscope tray,

- immunofluorescence 3159

olytropic diagnostic tube,

- bacteria 9259

olyurethane,

- fungicide, 3,5-dihalo-4-hydroxyacetophenones 8076

- microbial degradation 5195

olyvinyl alcohol-degrading enzyme,

- Pseudomonas O-3 859

olyvinylchloride,

- building sealant, fungal degradation 4279
- microbial degradation 5195
- packaging, beef preservation 9675
- preservative, chlorinated phenols
- monochloracetate esters 4614

olyvinylpyrrolidone,

- amphotericin B sorption 6607
- nystatin sorption 6607
- seafood disinfection/sterilisation 967

olyvinylpyrrolidone-iodine,

- see Povidone-iodine

olyvinylpyrrolidone medium,

- Neisseria gonorrhoeae L-form 6780

olyxanthylic acid,

- murine leukaemia virus 3715

omaceae,

- Gymnosporangium confusum 9819
- Gymnosporangium gracile 9819
- Gymnosporangium sabiniae 9819

omegranate,

- Aspergillus niger post-harvest decay 8756
- Cladosporium oxysporum 1000

Pomegranate(Contd),

- Cladosporium oxysporum post-harvest decay 4443
- Penicillium expansum post-harvest decay 8756
- Pestalotia 1003
- post-harvest decay, Rhizopus arrhizus 1091
- post-harvest decay, Rhizopus arrhizus, fungicide 1965

Pomfret,

- white, gamma-irradiation preservation 4244
- 4245

Pond,

- oxidation, wastewater treatment 3869
- stabilisation, dairy waste treatment 679
- stabilisation, wastewater treatment 3868

Poplar,

- arabis mosaic virus 250
- black, Melampsora allii-populina 3621
- black, Melampsora larici-populina 3621
- black, Melampsora larici-populina, fungicide 2047
- Ceratocystis fimbriata 7240
- Fusicladium radiosum/Pollaccia radiosa/Venturia macularis 2046
- Melampsora allii-populina 3621
- Melampsora larici-populina 3621 4540
- Melampsora larici-populina, fungicide 2047
- Melampsora medusae 4540
- Nectria galligena, apple 7137
- Oidium 5299
- Phoma exigua 4541
- poplar mosaic virus 6399
- Septoria musiva 5463
- white, Cladosporium martianoffinum 2046
- white, Phoma exigua 4541
- yellow, resistance, Lenzites trabea 420

Poplar mosaic virus,

- poplar 6399

Poppy,

- Mexican pickle, Cercosporidium guanicense 4394
- Mexican pickle, Deightonella argemonensis 4394
- microbial disease 3520
- pathogenic fungi 4366
- rhizosphere, vesicular-arbuscular mycorrhiza 7257

Populus,

- Ceratocystis fimbriata 7240
- Cytospora chrysosperma 2043
- Cytospora nivea 2043
- Melampsora larici-populina 4540
- Melampsora medusae 4540
- Nectria galligena, apple 7137
- Oidium 5299
- Phoma exigua 4541
- poplar mosaic virus 6399
- Septoria musiva 5463
- Valsa sordida 2043
- Valsa vinea 2043

Populus alba,

- Cladosporium martianoffinum 2046
- Phoma exigua 4541

Populus deltoides,

- Marssonina brunnea 6394
- Melampsora allii-populina 3621
- Melampsora larici-populina 3621 4540
- Melampsora medusae 4540
- resistance, Marssonina brunnea 5456
- resistance, Melampsora medusae 5456
- resistance, Septoria 5457

Populus nigra,

- Melampsora allii-populina 3621
- Melampsora larici-populina 3621
- Melampsora larici-populina, fungicide 2047

Populus tremuloides,

- Fusicladium radiosum/Pollaccia radiosa/Venturia macularis 2046
- Hypoxylon mammatum 415
- Hypoxylon mammatum, Saperda inornata 5454

Subject index

- Populus tremuloides**(Contd),
resistance, Hypoxylon mammatum 5455
Steccherinum oreophilum 10010
- Populus trichocarpa**,
Melampsora allii-populina 3621
Melampsora larici-populina 3621
- Populus x euramericana**,
arabis mosaic virus 250
Melampsora allii-populina 3621
Melampsora larici-populina 3621
Melampsora larici-populina, fungicide 2047
- Porcine enterovirus**,
single-step concentration 10629
- Poria carbonica**,
wood degradation, agar-stick breaking-radius test 4550
- Poria carneolutes**,
wood 3603
- Poria cinerascens**,
wood 3603
- Poria incrassata**,
Sequoia gigantea 6392
- Poria medula panis**,
xylanase 9438
- Poria monticola**,
esterase, cephalosporins 8132
redwood, decay resistance 10026
wood degradation, agar-stick breaking-radius test 4550
wood preservative assay 10031
- Poria nigra**,
wood 3603
- Poria nigrescens**,
wood 3603
- Poria placenta**,
cellulose degradation, wood 10025
- Poria reticulata**,
wood 3603
- Poria rivulosa**,
conifers 5446
- Poria subacida**,
conifers 5446
- Poria vaporaria**,
fungicide 2053
wood preservative 4551
- Poria versipora**,
wood 3603
- Poria weirii**,
conifers 5446
- Pork**,
bacteria, meat-stripping machine hygiene 8258
bacteria, microwave/oven cooking 6080
bactericide, hypochlorous acid 965
bacteriology 1749 4209
canned, Staphylococcus aureus, food poisoning 2582
carcass, Escherichia coli, antibiotics resistance 7299
carcass, Salmonella, hygiene 1528
Clostridium perfringens 2581
fat, lipolysis, Micrococcus 930
hot boiling, hygiene/quality control 8509
preservation, intermediate moisture 9677
Salmonella 5814
- Pork pie**,
Salmonella senftenberg 181
- Pork product**,
Salmonella, hygiene 1528
- Porphyobilinogen**,
delta-aminolaevulinic acid, Chromatium vinosum 5154
vitamin B12, Propionibacterium shermanii 6951
- Porphyrin**,
Propionibacterium shermanii, cheese whey medium 4133
- Porridge**,
Staphylococcus, food poisoning 1757
- Porthetria dispar**,
insecticide, Erwinia 891
insecticide, Pseudomonas 891
- Portulaca**,
+ Spirillum, nitrogen fixation 5501
- Portulaca grandiflora**,
+ Rhizobium, nitrogen fixation 10063
- Portulaca oleracea**,
potato virus Y 9845
- Post-harvest decay**,
342-353, 1087-1091, 1965-1976, 2764-2774,
3540-3545, 4431-4446, 5396-5401, 6317-6327,
7183-7193, 7945-7948, 8747-8761, 9907-9922
4026 5009 6816 8552
acid-treated corn, Aspergillus flavus, aflatoxin 2623
acid-treated corn, fungi 2623
antifungal agent/antibacterial agent/antiviral agent, polymeric biguanide 405
apple, Acremonium implicatum 4431
apple, antifungal agent 5396
apple, Aspergillus niger 8748
apple, Ceratocystis major 4431
apple, Leptothyrium pomi 1087
apple, Nectria galligena, antifungal agent 5396
apple, Nodulisporium hinkleum 4431
apple, Penicillium claviforme 1967
apple, Penicillium expansum 5397
apple, Penicillium expansum, fungicide 8749
apple, phenolic compounds 343
apple, Phomopsis mali 6317
apple, Rhizopus arrhizus, fungicide 1965
apple, Trichothecium roseum 1088 7184 7185
apple, Trichothecium roseum, trichothecine, trichothecolon 8750
avocado, Alternaria citri 9909
avocado, Colletotrichum 9909
avocado, Diplodia natalensis 9909
banana, Botrytis cinerea 8751
banana, Colletotrichum musae 4432 4433
banana, Colletotrichum musae, imazalil 3540
banana, fungicide 345
banana, Fusarium 4433
banana, Fusarium moniliforme 7186
banana, Fusarium solani 7187
banana, Helminthosporium speciferum 9910
banana, Rhizopus oryzae, fungicide 1965
banana, Verticillium theobromae 4433
barley grain, preservation, ammonia 1797
barley grain, preservation, citral caproate/allyl caproate, Aspergillus candidus, pig feed 9908
barley seed, Aspergillus repens/Penicillium cyclopium/Fusarium culmorum 2687
barley seed, beer 7697
blueberry 5398
blueberry, Alternaria/Botrytis cinerea/Gloeosporium 2764
brinjal, Rhizopus stolonifer, fungicide 1965
cabbage, Phytophthora porri 1968
cacao, Aspergillus tamarii 2765 2766
carrot, Botrytis cinerea 4434 6319 6816 9911 9912
carrot, Centrospora acerina 4435
carrot, gamma-irradiation 1966
cassava 6327
celery, Erwinia carotovora, sodium hypochlorite 6259
celery, Mycocentrospora acerina 5368
Citrus, Guignardia citricarpa 7188
citrus, Penicillium digitatum, 1-[beta-(allyloxy)-2,4-dichlorophenethyl]-imidazole 3541
Citrus, Penicillium digitatum, sec-butylamine 3709 3710
Citrus, Penicillium digitatum, fungicide 4441

Subject index

Post-harvest decay(Contd),

citrus, *Penicillium italicum*,
1-[beta-(allyloxy)-2,4-dichlorophenethyl]-im-
idazole 3541
Citrus, *Penicillium italicum*, fungicide 4441
cocoyam, *Fusarium moniliforme* 9913
cocoyam, *Fusarium solani* 9913
Colletotrichum gloeosporioides, guava,
tetracycline/thiurea 346
corn, fungi, chitin assay 9907
corn, propionic acid, cattle feed 209
corn, *Scopulariopsis brevicaulis*, ammonia
2769
Diospyros tomentosa, *Trichothecium roseum*
8752
emblic myrobolan, *Penicillium funiculosum*
4436
Erwinia chrysanthemi pectate lyase 3301
forage, fungi 8747
fruit, fungi, hypobaric pressure 7183
fruit, *Penicillium expansum*, patulin,
gamma-irradiation 3436
fruit, preservation 344
fungal, cola nut 6320
fungal, tomato 3545
fungicide, 1,2-dithiol-3-thione derivatives
8077
fungicide, thiabendazole +
N-methyl-2-pyrrolidone 5433
fungicide, thioallophanate derivatives 1111
ginger, *Memnoniella echinata* 7945
ginger, *Nectria inventa* 7945
ginger, *Trichuris spiralis* 7945
grain, fungi, volatile compounds 5402
grape, antifungal agent 5399
grape, antimicrobial agent 4437
grape, patulin 7830
grapefruit, *Fusarium lunulosporum* 8753
guava, *Cylindrocarpum tonkinense* 7189
guava, *Geotrichum candidum* 2768
guava, *Gliocladium roseum* 8754
guava, *Mucor hiemalis* 7946
guava, *Pestalotia psidii*, homeopathic drugs
9915
guava, thiabendazole 2767
Kadota fig, *Alternaria alternata*, fungicide
9914
lemon, ethylene 347
lemon, *Fusarium oxysporum*, fungicide 9916
lemon, *Geotrichum candidum*,
1-[beta-(allyloxy)-2,4-dichlorophenethyl]-im-
idazole 3541
lemon, *Phytophthora citrophthora* 1969
lettuce, *Stemphylium botryosum*, fungicide
4438
loganberry, fungi 6321
mandarin orange, *Geotrichum candidum* 4440
mango 1970
mango, *Hendersonia creberrima* 1090 1971
mango, microorganisms 1089 9917
mango, *Rhizopus arrhizus*, fungicide 1965
melon, *Thielaviopsis paradoxa* 9918
mushroom 6322 6816
onion, *Botrytis allii* 4439
onion bulbs 2770
onion, *Fusarium solani* 8755
onion, *Pseudomonas aeruginosa* 350
orange, *Diplodia natalensis*, fungicide 6318
orange, *Geotrichum candidum* 4578
orange, *Geotrichum candidum*, fungicide 2771
orange, *Geotrichum candidum*, sodium
o-phenylphenate 1972
orange, *Penicillium digitatum*, fungicide
6318
orange, *Phomopsis citri*, fungicide 6318
orange, *Sclerotinia sclerotiorum*, fungicide
6318
papaya, *Colletotrichum*
gloeosporioides/*Ascochyta*
caricacae/*Gloeosporium* 2772

Post-harvest decay(Contd),

papaya, gamma-irradiation 4442
papaya, *Gloeosporium papayae*, pectic enzymes,
cellulolytic enzymes 6323
papaya, *Phytophthora palmivora*, fungicide
8666
peach, fungicide 348
peach, *Geotrichum candidum* 7190
peach, *Monilia implicata* 7190
peach, *Sclerotinia fructicola*, benzimidazole
fungicide tolerance 8798
peanut, *Aspergillus flavus* 982
peanut, *Aspergillus flavus*, aflatoxins 9708
peanut, fungi/mycotoxins 2773
pear, *Trichothecium roseum*, trichothecine,
trichothecolone 8750
Phoma exigua, potato 1973
pomegranate, *Aspergillus niger* 8756
pomegranate, *Cladosporium oxysporum* 4443
pomegranate, *Penicillium expansum* 8756
pomegranate, *Rhizopus arrhizus* 1091
pomegranate, *Rhizopus arrhizus*, fungicide
1965
potato, *Erwinia carotovora* 351 4445
potato, *Erwinia carotovora* + *Clostridium*
9920
potato, *Erwinia carotovora*, phosphatidase
C/protease/endo-polygalacturonate
trans-eliminase 4102
potato, *Erwinia carotovora*, resistance 3543
potato, *Fusarium roseum* 351
potato, *Fusarium solani*, resistance 8758
potato, *Fusarium solani*, scopolin 3522
potato, *Helminthosporium solani* 7929
potato, *Helminthosporium solani*, fungicide
seed dressing 7993
potato, gamma-irradiation 8757
potato, *Oospora pustulans* 6325
potato, *Pectobacterium carotovorum*,
chloramphenicol 6324
potato, *Pectobacterium carotovorum*,
streptomycin 6324
potato, *Phoma exigua* 1974 4444
potato, *Phoma exigua*, fungicide 7947
potato, *Phoma exigua*, scopolin 3522
potato, *Phytophthora erythroseptica* 9921
potato, *Phytophthora infestans*, scopolin
3522
potato, *Rhizopus arrhizus*, fungicide 1965
potato, *Streptomyces scabies*, chlorogenic
acid/chlorogonoplast 1975
rapeseed 8759
rapeseed, fungi 6326
rice, sterigmatocystin 238
sapota, *Pestalotiopsis versicolor* 2774
satsuma mandarin, *Penicillium*
digitatum/*Penicillium italicum*/*Alternaria*
citri, fungicide DF-125 5400
sorghum, mycoflora 7191
soybean, fungi, chitin assay 9907
squash, *Erwinia carotovora* + *Phytophthora*
cryptogea, pectin methylsterase + pectin
transeliminase 352
strawberry, fungi 7192
strawberry, fungi, fungicide 8760
strawberry, gamma-irradiation 1966
Strychnos noxvomica, *Cladosporium oxysporum*
8761
sugarbeet, *Botrytis cinerea*, *Penicillium*
claviforme 3544
sugarbeet, *Phoma betae*, *Penicillium*
claviforme 3544
sweet orange, *Geotrichum candidum*,
polygalacturonase, cellulase 9919
sweet potato, *Lasiodiplodia theobromae*,
cellulolytic/pectic enzymes 353
sweetpotato, *Fusarium oxysporum*,
benomyl/thiabendazole 6373
tangerine, *Colletotrichum gloeosporioides*
7193

Subject index

Post-harvest decay(Contd),

- tangerine, Colletotrichum gloeosporioides, ethylene 5401
- tomato, Alternaria solani 5392
- tomato, Cylindrocarpum tonkinense 7189
- tomato, Cylindrocladium scoparium 1976
- tomato, Myrothecium roridum 4446
- tomato, Phoma destructiva 5392
- tomato, Phytophthora 5392
- tomato, Pythium 5392
- tomato, Rhizoctonia, resistance 9922
- tomato, Rhizopus 5392
- vegetable, fungi, hypobaric pressure 7183
- vegetable, Penicillium expansum, patulin, gamma-irradiation 3436
- vegetable, preservation 349
- wheat, antifungal agent 9962
- wheat, fungi 342
- wheat grain, preservation, ammonia 1797
- wheat grain, sub-epidermal fungi 9804
- wheat seed, antifungal agent 407
- wild rice 2549
- yam 6327
- yam, fungicide 7948

Potamogeton filiformis,

- + Spirillum, nitrogen fixation 2894

Potash mining,

- guar gum, Vibrio/Halobacterium/Halococcus 2902

Potassium,

- Fusarium oxysporum, cellulase, melon wilt 7154
- Fusarium oxysporum, pectin transeliminase, melon wilt 7154
- Fusarium oxysporum, pectinolytic/cellulolytic enzymes, melon wilt 7922
- Fusarium oxysporum, polygalacturonase, melon wilt 7154
- Fusarium oxysporum, polygalacturonate transeeliminase, melon wilt 7154
- Fusarium oxysporum, protopectinase, melon wilt 7154
- soil, Fusarium oxysporum, melon 7923

Potassium azide,

- Sclerospora sorghi, sorghum 3575

Potassium chloride,

- Fusarium oxysporum, oil palm 367

Potassium metabisulphite,

- grape post-harvest decay 5399

Potato,

- Alternaria solani, fungicide 5418
- Alternaria solani, fungicide + sprinkler irrigation system 7970
- anhydro-beta-rotulol, antifungal agent 3568
- Botrytis cinerea 327
- Botrytis cinerea phospholipase 3309
- Corynebacterium sepedonicum 3521
- dehydrated granules, propylene oxide sterilisation 7051
- dried pulp, preservation, propionic acid/ammonia 4233
- Erwinia carotovora 4403 6259 7163 7164 8717
- Erwinia carotovora + Clostridium post-harvest decay 9920
- Erwinia carotovora phosphatidase C 4102
- Erwinia carotovora endo-polygalacturonate trans-eliminase 4102
- Erwinia carotovora post-harvest decay 4445
- Erwinia carotovora post-harvest decay, resistance 3543
- Erwinia carotovora protease 4102
- Erysiphe cichoracearum, fungicide 4493
- fungal disease 5296
- Fusarium avenaceum, rishitin/phytuberin/solavetivone/desacetylph ytoberin, assay 3567
- Fusarium coeruleum, pectinmethylesterase, polygalacturonase, cellulase, protease 8718
- Fusarium oxysporum 8719
- Fusarium solani, scopolin 3522

Potato(Contd),

- Fusarium sulphureum, pectinmethylesterase, polygalacturonase, cellulase, protease 8718
- gelatinized pieces, preservation 969
- Glomus fasciculatus 3637
- Glomus mosseae 3637
- Helminthosporium solani 7929
- Helminthosporium solani, fungicide seed dressing 7993
- gamma-irradiation, aflatoxin 3432
- Leveillula 4237
- lubimin, fungi, 15-dihydrolubimin 7967
- microbial post-harvest decay, gamma-irradiation 8757
- microorganisms, phytoalexins 4495
- Oospora pustulans post-harvest decay 6325
- pathogenic fungi 4366
- Pectobacterium carotovorum post-harvest decay, chloramphenicol 6324
- Pectobacterium carotovorum post-harvest decay, streptomycin 6324
- Phoma exigua, fungicide 7947
- Phoma exigua post-harvest decay 4444
- Phoma exigua, rishitin/phytuberin/solavetivone/desacetylph ytoberin, assay 3567
- Phoma exigua, scopolin 3522
- Phoma solanica 3523
- Phytophthora erythroseptica post-harvest decay 9921
- Phytophthora infestans 1076 2754 4364 4404 4405 4406 4407 4408 6287 7165 7931 9882 9883
- Phytophthora infestans, aminomethylenemalononitrile derivatives 3578
- Phytophthora infestans, aphicide/fungicide 2008
- Phytophthora infestans, electron microscopy 3524 6288
- Phytophthora infestans, fungicide 4404 7203
- Phytophthora infestans, insecticide 4501
- Phytophthora infestans, phytoalexin 7293
- Phytophthora infestans, rishitin 6351
- Phytophthora infestans, rishitin/lubimin/rishitinol 1940
- Phytophthora infestans, rishitin/necrosis 6286
- Phytophthora infestans, rishitin/phytuberin/solavetivone/desacetylph ytoberin, assay 3567
- Phytophthora infestans, scopolin 3522
- Phytophthora infestans, soil 7930
- Phytophthora infestans, streptomycin, phytoalexin 3525
- phytuberin, antifungal agent 3568
- pieces, microbially stable 7052
- post-harvest decay, Erwinia carotovora 351
- post-harvest decay, Fusarium roseum 351
- post-harvest decay, Phoma exigua 1973 1974
- post-harvest decay, Rhizopus arrhizus, fungicide 1965
- potato aucuba mosaic virus, pepper leaf test 4401
- potato leaf roll virus 6283 7162
- potato leaf roll virus, insecticide 1097
- potato mop-top virus 4402
- potato spindle tuber viroid 5385
- potato spindle tuber viroid, piperonyl butoxide 9985
- potato spindle tuber viroid, polyacrylamide gel electrophoresis 6284
- potato virus A 1939
- potato virus M 325
- potato virus M, electrophoresis 5384
- potato virus M + potato virus S + potato virus X 9881
- potato virus M, test plants 324
- potato virus S 9880
- potato virus S, electrophoresis 5384

Subject index

Potato(Contd),

potato virus S, heat treatment 4479
 potato virus S + potato virus X 9880
 potato virus S, test plants 324
 potato virus X 9880
 potato virus X, electrophoresis 5384
 potato virus X, gamma-irradiation 1075
 potato virus X/potato virus S/potato virus M/potato virus Y serology 9303
 potato virus X resistance 1968
 potato virus Y 326 6304
 potato virus Y, electrophoresis 5384
 potato virus Y, oil emulsion 9953
 purple top roll disease, mycoplasma-like organism 5386
 resistance, *Cercospora colanituberosi* 7957
 resistance, *Erwinia carotovora* 9941
 resistance, *Fusarium solani* 8758
 resistance, *Phytophthora infestans* 3558 6342
 resistance, potato virus M 8715
 resistance, *Rhizoctonia solani* 4409
 resistance, *Synchytrium endobioticum* 3559 3560
 resistance, *Synchytrium endobioticum*, Glynn-Lemmerzahl method 328
 resistance, *Verticillium dahliae* 7166
Rhizoctonia solani 1077 4409 9884
Rhizoctonia solani, benomyl seed treatment 4526
Rhizoctonia solani, nematode-inhibiting substance 3526
Rhizoctonia solani phytotoxin 4267
Rhizoctonia solani, seed treatment fungicide 2033
 rishitin, antifungal agent 3568
Sclerotinia sclerotiorum
 endo-beta-1,4-galactanase 9390
Sclerotinia sclerotiorum, scanning electron microscopy 6173
 silage, cattle feed 9641
 solavetivone, antifungal agent 3568
 spindle tuber disease viroid, column chromatography 6164
Spongopora subterranea 4410
Streptomyces scabies 4996
Streptomyces scabies, chlorogenic acid/chlorogonoplast 1975
Streptomyces scabies, fertilizer 1941
Synchytrium endobioticum 7932
 tobacco rattle virus, plant protection 7928
 tobacco ringspot virus 6285
Verticillium albo-atrum 7164
Verticillium albo-atrum, soil, barley straw amendment 5415
Verticillium dahliae 7166 9885
Verticillium nubilum, coiled sprout 6289
Verticillium, telone C 8720
 vesicular-arbuscular mycorrhiza, phosphorus fertiliser 8878
 virus diseases 4364
 waste, culture medium, *Penicillium digitatum*, protein/biomass 2430
 wastewater, soil disposal, denitrification 4608
Potato aucuba mosaic virus,
 potato, pepper leaf test 4401
Potato dextrose agar,
 acidified/non-acidified chlortetracycline, fungi, food 1591
Potato leaf roll virus,
 potato 6283 7162
 potato, insecticide 1097
Potato mash,
 saccharization, *Aspergillus niger*, spirit 5181
Potato mop-top virus,
Nicotiana velutina mosaic virus 1908
 potato 4402

Potato-processing waste,

Lactobacillus fermentation, ruminant feed 9613

Potato rolled leaf virus,

antiviral agent, plant protection 3592

Potato spindle tuber viroid,

column chromatography 6164

lyophilisation preservation 6540

potato 5285

potato, piperonyl butoxide 9985

potato, polyacrylamide gel electrophoresis 6284

Potato virus 3,

bean 8716

Potato virus A,

1939

Potato virus M,

+ potato virus X + potato virus S, potato 9881

potato 325

potato, electrophoresis 5384

potato, resistance 8715

potato, serology 9303

Solanum megistacrolotum 8715

Solanum stoloniferum 8715

test plants 324

Potato virus S,

+ potato virus X, potato 9880

+ potato virus X + potato virus M, potato 9881

potato 9880

potato, electrophoresis 5384

potato, heat treatment 4479

potato, serology 9303

test plants 324

Potato virus X,

+ potato virus M + potato virus S, potato 9881

+ potato virus S, potato 9880

antiviral agent, plant protection 3592 9984

potato 9880

potato, electrophoresis 5384

potato, gamma-irradiation 1075

potato, resistance 1988

potato, serology 9303

Solanum laciniatum 7171

tobacco, virazole 7985

Potato virus Y,

antiviral agent, plant protection 3592

Datura metel 1059

Macroptilium atropurpureum 5305

Macroptilium bracteatum 5305

Macroptilium bracteatum, resistance 5305

Macroptilium lathyroides, resistance 5305

pepper 1059 6304

Physalis angulata 6304

Physalis virginiana 6304

plant disease 9845

potato 326 6304

potato, electrophoresis 5384

potato, oil emulsion 9953

potato, serology 9303

Solanum laciniatum 7171

thiophosphoric acid ester amide derivatives 1117

tobacco 6304

tomato 6304 9899

tomato, plant protection 5392

Potato virus YN,

tobacco 9897

Potentialmyces balsamicola,

phacidin, antifungal agent 10398

Potency assay,

cholera vaccine, ferric ammonium citrate 3089

Potentiometric sulphur dioxide sensing probe, food preservation 5251

Potentimetry,

framycin + ionic/non-ionic surfactant 10309

Subject index

Potentiometry(Contd),

oriseofulvin 10327

Potted plant,

bacteria, hospital hygiene 10489

Potting compost,

phytopathogenic fungi 2055

Potyvirus,

garlic 6248

grapevine 7916

onion 6248

Poultry,

see also Chicken and Turkey

antibacterial agent, rosemary spice

extractive 6126

bactericide, hypochlorous acid 965

carcass, bacteria 2578

carcass, bacteriological sampling,

template-swab method 147

carcass, hygiene 7523

carcass, microbiology 2579

carcass, Salmonella 7762

egg, glutaraldehyde disinfection 3908

egg, Salmonella, oozomet 733

feed, antibiotic A-2315, Mycoplasma

gallisepticum 623

feed, antibiotic A-496 624

feed, fermented poultry manure 9614

feed, fungistat, oentian violet 956

feed, microbial protein 1766

feed, mouldy grain 3415

feed, Torula protein 7033

feed, Torula RNA 7033

feed, zeaxanthin 73 74

food poisoning 6071

frozen, Salmonella 168

hot boning, hygiene/quality control 8509

litter, Salmonella, direct

culture/immunofluorescence 2387

litter, silage, cattle/sheep feed 9637

Mycoplasma vaccine 3093

Newcastle disease virus, adamantyl thioamides

2126

pasteurisation 9673

refrigerated/frozen, Clostridium perfringens

7766

waste, treatment 680 7478

waste, treatment, feed/bacterial protein

2314

Poultry farm,

water, bacteriology 4874

Poultry hatchery,

hygiene 9236

Poultry house,

air, bacteria 2289

disinfectant 1254

filtered air under positive pressure,

formaldehyde disinfection 7520

Marek's disease virus, disinfection 10433

Poultry meat,

mechanically-deboned, microbiology 5229

Poultry processing plant,

water, microbiology 7493

Pour plate,

Streptococcus group B 3998

Povidone-iodine,

antibacterial agent/antiseptic 2935

antibacterial agent, dental plaque 10504

bactericide 6737

bronchofiberscope disinfection 5807

Powdery mildew,

Erysiphe betae, sugarbeet 5390

Erysiphe betae, sugarbeet, fungicide 7205

7977

Erysiphe carpophila, Weinmannia silvicola

2664

Erysiphe cichoracearum 2664

Erysiphe cichoracearum, Benincasa hispida

1002

Erysiphe cichoracearum, Coccinia cordifolia

7146

Erysiphe cichoracearum, cucumber 4386

Powdery mildew(Contd),

Erysiphe cichoracearum, cucumber, pyrazolium

derivatives 3581 4511

Erysiphe cichoracearum, cucumber, resmethrin

4530

Erysiphe cichoracearum, cucurbit, diphenyl

pyrazolium derivatives 1114

Erysiphe cichoracearum, cucurbit, pyrazolium

derivatives 2812

Erysiphe cichoracearum, Cucurbitaceae,

fungicide 1101

Erysiphe cichoracearum, okra 322 1069

Erysiphe cichoracearum, Physalis peruvianum

1002

Erysiphe cichoracearum, potato, fungicide

4493

Erysiphe cichoracearum, sunflower 333

Erysiphe cichoracearum, winged bean 5772

Erysiphe cichoracearum, Zinnia, resmethrin

4111

Erysiphe graminis avenae, oat 6334

Erysiphe graminis avenae, oat, resistance

6134 7949 8770

Erysiphe graminis, barley, 2-aminopyrimidine

derivatives 395

Erysiphe graminis, barley, triazinedione

derivatives 1119

Erysiphe graminis hordei, barley 1863 1864

1865 3474 4324 4325 4326 5317 7879 8627

8628 9774 9775 9776

Erysiphe graminis hordei, barley, diphenyl

pyrazolium derivatives 1114

Erysiphe graminis hordei, barley,

imidazo-pyrimidine derivatives 4512

Erysiphe graminis hordei, barley, iodine

staining 8594

Erysiphe graminis hordei, barley, pyrazolium

derivatives 2812 3581 4511

Erysiphe graminis hordei, barley, resistance

7195 8627 8767

Erysiphe graminis hordei, barley, triazole

derivatives 7209

Erysiphe graminis hordei, barley, triforine

seed treatment 2826

Erysiphe graminis hordei, barley + wheat

8620

Erysiphe graminis hordei, wheat, resistance

9934

Erysiphe graminis, pea 6190

Erysiphe graminis, pea leaf roll virus, pea

7113

Erysiphe graminis tritici, barley, fungicide

378

Erysiphe graminis tritici, wheat 289 2661

4315 4451 5335 5336 5337

Erysiphe graminis tritici, wheat, calixin

4502

Erysiphe graminis tritici, wheat, diphenyl

pyrazolium derivatives 1114

Erysiphe graminis tritici, wheat, fungicide

1101

Erysiphe graminis tritici, wheat,

imidazo-pyrimidine derivatives 4512

Erysiphe graminis tritici, wheat, pyrazolium

derivatives 2812 3581 4511

Erysiphe graminis tritici, wheat, resistance

1094 1095 3550 4451 4452 5336 5337

Erysiphe graminis, wheat, 2-aminopyrimidine

derivatives 395

Erysiphe heraclei, carrot 1002 7907

Erysiphe lagerstroemiae, crapemyrtle,

resmethrin 4500

Erysiphe monardae 8707

Erysiphe pisi, pea 4306 9767

Erysiphe pisi, pea, pisatin 8788

Erysiphe polygoni, Aristotelia serrata 2664

Erysiphe polygoni, bean, phthalimide

derivatives 2815

Erysiphe polygoni, black gram 3548

subject index

Powdery mildew(Contd),

Erysiphe polygoni, black gram, resistance 3548
Erysiphe polygoni, carrot 4376 4377
Erysiphe polygoni, cowpea, resmethrin 4500
Erysiphe polygoni, pea 2676 2677
Erysiphe polygoni, pea, resistance 2677
Erysiphe polygoni, pea, sulphur fungicide 8812
Erysiphe polygoni, phasemy bean, resistance 2775
Erysiphe polygoni, sugarbeet 8731 9894
Erysiphe polygoni, sugarbeet, sulphur fungicide 1108
Erysiphe ranunculi 2664
Erysiphe rubicola, Pubis souarrosus 2664
Erysiphe, soybean 2682
Erysiphe trifolii, Robinia pseudoaccacia 1002
Erysiphe umbelliferarum, carrot 1911
Erysiphe umbelliferarum, coriander 1911
Erysiphe umbelliferarum, cumin 1911
Erysiphe umbelliferarum, dill 1911
Erysiphe umbelliferarum, fennel 1911
Gramineae 5298
Leveillula lanuginosa, parsley 7926
Leveillula taurica, pepper, auxins 9952
Microsphaera alni, lilac, benomyl 10008
Microsphaera aliohitoides, oak 2850
Microsphaera begoniae, begonia 2729
Microsphaera diffusa, cowpea 3471
Microsphaera diffusa, soybean 3471 6200 8616 4771
Microsphaera diffusa, soybean, resistance 8616
Microsphaera, Ligustrum japonicum 318
Microsphaera penicillata, broad bean 8606
Microsphaera rubi, blackberry 4372
Microsphaera, soybean 2682
Microsphaeria alni, lilac 8704
Microsphaeria alni, lilac, resistance 8704
Oidiopsis, chilli 1919
Oidiopsis/Leveillula taurica, China aster 5299
Oidiopsis/Leveillula taurica, Jerusalem cherry 5299
Oidiopsis/Leveillula taurica, wire-plant 5299
Oidiopsis, Umbelliferae 7906
Oidium 6275
Oidium, Adenostemma viscosum 2665
Oidium, Blainvillea platyclate 2665
Oidium, carrot 7906
Oidium, Dipteracanthus prostratus 2665
Oidium lini, flax, resistance 1987
Oidium, Macroptilium atropurpureum 5305
Oidium, Macroptilium bracteatum 5305
Oidium, Macroptilium lathyroides 5305
Oidium, Medcardonia dianthera 2665
Oidium, Murraya exotica 2665
Oidium/Oidiopsis, stock 5299
Oidium, poplar 5299
Oidium, Umbelliferae 7906
oxadiazolidine-3,5-dione derivatives 1115
plant disease 304
plants 5298
Plasmopara viticola, grapevine, imidazo-pyrimidine derivatives 4512
Plasmopara viticola, vine, diphenylamine derivatives 392
Podospaera leucotricha, apple, diphenyl pyrazolium derivatives 1114
Podospaera leucotricha, pear, diphenyl pyrazolium derivatives 1114
Podospaera leucotricha, apple 2664 4290 4292
Podospaera leucotricha, apple, 2-aminopyrimidine derivatives 395
Podospaera leucotricha, apple, benomyl + oil adjuvant 2791

Powdery mildew(Contd),

Podospaera leucotricha, apple, fungicide 1101
Podospaera leucotricha, apple, imidazo-pyrimidine derivatives 4512
Podospaera leucotricha, apple, pyrazolium derivatives 4511
Podospaera leucotricha, apple, triazinedione derivatives 1119
Podospaera leucotricha, crabapple, resistance 3552
Podospaera leucotricha, pear, pyrazolium derivatives 4511
Podospaera leucotricha, apple, diphenylamine derivatives 392
Podospaera leucotricha, apple 4291
Podospaera leucotricha, apple, pyrazolium derivatives 4512
Podospaera leucotricha, apple, triforine 3556
Pseudoperonospora cubensis, melon 9874
Pseudoperonospora cubensis, melon, resistance 9874
rose, resistance 4473 4474 6343
Sphaerotheca fuliginea, Bidens biternata 1002
Sphaerotheca fuliginea, + bottle-gourd mosaic virus, bottle-gourds 2770
Sphaerotheca fuliginea, Coriaria angustissima 2664
Sphaerotheca fuliginea, Coriaria thymifolia 2664
Sphaerotheca fuliginea, cucumber, 2-aminopyrimidine derivatives 395
Sphaerotheca fuliginea, cucumber, imidazo-pyrimidine derivatives 4512
Sphaerotheca fuliginea, cucurbit 1056
Sphaerotheca fuliginea, cucurbit, fungicide 4491
Sphaerotheca fuliginea, watermelon 9906
Sphaerotheca humuli, Kalanchoe blossfeldiana, resmethrin 4500
Sphaerotheca macularis, red raspberry, resistance 9942
Sphaerotheca mors-uvae, blackcurrant 8681
Sphaerotheca mors-uvae, blackcurrant, resistance 4457 4458
Sphaerotheca pannosa, peach, fungicide 2795 2796
Sphaerotheca pannosa, rose, fungicide 1101 2795 2796
Sphaerotheca pannosa, rose, resmethrin 4500
sugarbeet 8752
Uncinula necator, grapevine, 2-aminopyrimidine derivatives 395
Uncinula necator, grapevine, fungicide 1101
Uncinula necator, Vitis, triazinedione derivatives, 1119

Powdery scab,

Spongospora subterranea, potato 4410

Power station cooling circuit,

chlorination 9213

Poxvirus,

carbazole derivatives 2128
dihydroxyanthraquinone derivatives 7342
phenanthrene derivatives 525
phenanthridinone derivatives 525
pyranone derivatives 525
quinazolinone derivatives 4684
rifamycin 1322
theophylline derivatives 8091
thioxanthene bis-basic ketones 1248
xanthene bis-basic esters/bis-basic amides 1247
xanthene bis-basic ketones 1249
xanthene bis-basic ketones 1249
xanthene bis-basic esters/bis-basic amides 1247

PR toxin,

dairy product 224

Subject index

PR toxin(Contd),

Penicillium roqueforti 3437 6008
Penicillium roqueforti, transcription 1810

Prairie cordgrass,

nitrogen fixation, nitrogenase 4597

Pratylenchus penetrans,

+ Pythium polymorphon, celery 1918
+ Thielaviopsis basicola, cherry replant disease 5352

Pratylenchus projectus,

+ Pythium polymorphon, celery 1918

Precipitation,

Cetavlon, Escherichia coli polysaccharide K antigen 3178
copper, Desulfovibrio desulfuricans 5510
phage, polyethylene glycol 7588
polyethylene glycol, Japanese encephalitis virus 5869

Predator-prey interaction,

Aerobacter aerogenes + Tetrahymena pyriformis 3967

Predictrine,

glucose transformation, Streptomyces griseus 6954

Prednisolone,

cortisol transformation, immobilised Corynebacterium simplex 5977

17alpha-Pregn-4-ene-21-carboxylic acid,

derivatives, Chaetomium cochliodes 5980

Pregadien-20-carboxylic acid,

derivatives, Mycobacterium 9441

Pregnane,

dioxygenated 5alpha-, hydroxylation, Calonectria decora 2508
dioxygenated 5alpha-, hydroxylation, Daedalea rufescens 2568
dioxygenated 5alpha-, hydroxylation, Rhizopus 2508
microbial 1,2-dehydrogenation 5978
reduction, Bacillus megaterium 61

Premna serratifolia,

Crossopora premnae-tomentosae 2662

Prephenate dehydratase/chorismate mutase,

Escherichia coli 4077 4078

Preservation,

acetic acid, packaged beef 9676
Agaricus bisporus, polypropylene drinking straw, liquid nitrogen 4708
alcoholic beverage 9507
animal fat 166
animal feed 957 8552 9650
animal feed, hexamethylene tetramine 2602
aseptic tank, food 215
bacon, nitrate curing 5256
bacteria 541 4703 7355 10216
barley grain, ammonia 1797
barley grain, citral caproate/allyl caproate, Aspergillus candidus, pig feed 9908
BCG vaccine 665
beef 9675
beer 9507
beverage 3412
beverage, nistamycin 6130
Blastocladiella emersonii 4709
blood, ozone 9018
bread, propionic acid 9684
Brucella B19 vaccine 5772
canned meat, nitrite, Clostridium botulinum 9678
canning, fruit 7053
canning, meat 219
carbon dioxide purging, cucumber brine fermentation, bloater control 4249
carbon dioxide snow, prepacked fish 4243
cell line 1288
cheese 964
cheese, ozone 2610
cheese, sorbate 3426
chicken, cold storage, polyphosphate,

Preservation(Contd),

Salmonella 4239
chilling/freezing, food 5250
chopped beef 174
cider, sulphur dioxide, patulin 7829
cod viscera silage, propionic acid + formic acid 9648
colostrum 9649
colostrum, formaldehyde 7034
colostrum, formaldehyde, cattle feed 7036
colostrum, propionic acid 7034
colostrum, propionic acid, cattle feed 7036
Corynebacterium nebraskense 10217
cosmetic 4698 5610 7354 10219
cottage cheese, Streptococcus diacetylactis 3395
cryogenic, fungi 2158
cucumber pickle, Clostridium botulinum 221
curing, bacon, brine quality control 4241
dairy product 6811
dairy starter bacteria 7358
deep-freeze, bacteria 5607
deep-freeze, vacuum-packaged sliced bacon, shelf-life 4242
dessication, yeast, restoration 3739
dimethyl dicarbonate, food 9663
Douglas fir pole, kerf 4553
dried potato pulp, propionic acid/ammonia 4233
drying, food 8528
egg product 7760
emulsified oil dressing 971
fermented meat product 6082
fish-cake, sorbic acid/sorbate 4247
fish stuffing, p-hydroxybenzoic acid ester silicon derivatives 5551
flower 8552
food 3223 3421 3422 4998 6811 8526 8552 9650
food, Bacillus cereus 8527
food, freezing, microorganisms 9652
food, fungi 7794
food, gamma irradiation + heat treatment, Aspergillus flavus 213 214
food, garlic 10143
food, low temperature spoilage 6025
food, magnesium 3810
food, refrigerator 9651
food, smoking, aflatoxin 2624
food, sulphur dioxide, potentiometric sensing probe 5251
food, water activity 907 4184
food, yeasts 7719 7794
freezing, Lactobacillus 6541
freezing, Neisseria meningitidis 4705
freezing, Streptococcus lactis 6541
frozen dough, Saccharomyces cerevisiae, ethanol 3403
frozen, Saccharomyces cerevisiae, flow microcalorimetry 2982
fruit 344 8552
fruit juice, sulphur dioxide 6811
fungi 545
gelatinized potato pieces 969
glycerol, mosquito densovirus 9015
grain 1796
heat, film/foil packaged meat meals 9681
heat, packaged meat product 9680
heat treatment, sausage, Pseudomonas/Micrococcus 220
Hungarian salami, mycotoxins 1800
hydrogen peroxide, milk 2608
intermediate moisture food, Staphylococcus aureus 1782
intermediate moisture, pork 9677
irradiation, chicken carcass, Escherichia coli 9674
irradiation, chicken carcass, Salmonella panama 9674
gamma-irradiation, cod 6128
gamma-irradiation, cosmetic packaging 5611

Subject index

reservation (Contd),

gamma-irradiation, food 5249
 gamma-irradiation, food, aflatoxin 3432
 gamma-irradiation, food, *Aspergillus flavus*, aflatoxin 6121
 gamma-irradiation, Indian mackerel 4244 4245
 gamma-irradiation, packaged kamaboko 7807
 gamma-irradiation, shrimp 6128
 gamma-irradiation, vacuum-packaged trout, microorganisms 5258
 gamma-irradiation, white pomfret 4244 4245
 Karelian pasty, sorbic acid/sorbate, *Bacillus cereus*/*Bacillus subtilis* 8551
Listeria monocytogenes, freeze-thawing, transmission electron/scanning electron microscopy 4704
 lyophilisation 10218
 lyophilisation, *Actinomyces parvulus* 7357
 lyophilisation, bacteria 542
 lyophilisation, cottage cheese 8542
 lyophilisation, food 9653
 lyophilisation, fungi 4707
 lyophilisation, *Fusarium* 7584
 lyophilisation, interferon 9017
 lyophilisation, *Lactobacillus acidophilus*, gelatine capsule 7359
 lyophilisation, *Lactobacillus bulgaricus* 543
 lyophilisation, *Lactobacillus bulgaricus*, gelatine capsule 7359
 lyophilisation, *Mycobacterium* 544
 lyophilisation, potato spindle tuber viroid 6540
 lyophilisation, pseudorabies virus 1287
 lyophilisation, rapid freezing apparatus 540
 lyophilisation, *Saccharomyces cerevisiae* 2983
 lyophilisation, *Streptococcus diacetylactis*, gelatine capsule 7359
 lyophilisation, *Streptococcus lactis*, gelatine capsule 7359
 lyophilisation, *Streptococcus thermophilus*, gelatine capsule 7359
 lyophilised contagious bovine peripneumonia vaccine 7460
 meat 1789 1792 3224 7050 7801 8543 8544
 meat, carbon monoxide/carbon dioxide 8548
 meat, *Clostridium sporogenes* 9679
 meat, hypochlorous acid 965
 meat/meat product, water activity 218
 meat product 7805
 meat, rosemary spice extractive 6126
 mettwurst 8550
 microorganisms 4706 10605
 milk 2606 6211
 milk, lactoperoxidase 2609
 milk, nisin 961 962
 milk product 2606
Neisseria gonorrhoeae, liquid medium 5608
 nisin, dried boliti fish 1794
 non-sterile product 539
 nuts, methyl bromide 8553
 packaged cottage cheese, pimaricin 6125
 papaya, gamma-irradiation 4442
 partially-baked pizza 9685
 partially-processed hide/skin 7285 7286
 pasteurisation, milk 9668
 pet feed 1776
 pharmaceutical, magnesidin 3810
 potato pieces 7052
 poultry feed, gentian violet 956
 prepackaged beef, carbon monoxide 2613
 prepackaged peeled brown shrimp 1795
 propionic acid, animal feed, *Salmonella* 7046
 propionic acid, corn, cattle feed 209
 ptarmigan 2611
 rabbit meat 5255
 radappertization, food, *Clostridium botulinum* 9661
 radiation, Vienna sausage, *Moraxella*/*Acinetobacter* 2615

Preservation (Contd),

red clover mottle virus 10215
 refrigerated transport, beef 8547
 refrigeration, milk 3425
 respiratory syncytial virus 9016
 rubber latex 10093
 rumen bacteria 7356
 salted fish, microbiology 186
 sausage, *Salmonella* senttberg 9583
 silage 7045
 silage, caproic acid 9645
 silage, sodium metabisulphite 955
 smoked salmon 968
 soured milk product 963
 sponge cake, oroponic acid 9684
 sterilised milk, nisin, *Bacillus subtilis*/*Bacillus stearothermophilus* 1785
 stone building, bacterial leaching 467
Streptomyces, organic solvents 5609
 sublimation dehydration, bacteria 2981
 sweetened aerated beverage 4251
 tomato juice, *Bacillus coagulans* 970
 trout, *Clostridium botulinum* toxin 7851
 ultra-high temperature milk 2607
 ultra-high temperature pasteurised milk 9667
 ultra-high temperature treatment, milk 1783 1784
 vegetable 349 6129 8552
 wheat grain, ammonia 1797
Xanthomonas campestris 7360
 yeast 4706
 yoghurt 964

Preservative,

actinomycin antibiotic 70591 1389
 adhesive 2053
 adhesive, fungistat/bacteriostat, benzisothiazole-3-one derivatives 534
 ammonia, corn, *Scopulariopsis brevicaulis* 2769
 animal feed 6116
 antibacterial agent/antifungal agent 469
 antibacterial agent/antifungal agent, alkylphenols 531
 antibacterial agent/antifungal agent, benzene derivatives 2131
 antibacterial agent/antifungal agent, *n*-oxypyridyl thiol aluminium derivatives 749
 antifungal agent/antibacterial agent, paraldol 3721
 antimicrobial agent, methylrosaniline, animal feed 2603
 bactericide 2157 4653
 bactericide/fungicide, benzisothiazolinone + quaternary ammonium compound 4687
 bactericide/fungicide, dithiocarbamate derivatives 6526
 bactericide/fungicide, isothiazole derivatives 1268
 benzalkonium chloride, antibacterial agent 6539
 cephalosporin derivatives 6554
 cephalosporins 3753
 chlorbutol, antibacterial agent 6539
 chlorhexidine gluconate, antibacterial agent 6539
 chlorinated phenols monochloracetate esters 4614
 cinnamyl phenols 532
 cosmetic 5605
 cosmetic, antibacterial agent/antifungal agent, aliphatic diol 4699
 distemper 2053
 dye, bactericide/fungicide, triorganotin compounds/triorganolead compounds 2129
 dye, benzotriazine-1,4-dioxide derivatives 2091
 eye drop, *Pseudomonas aeruginosa* 5606
 eye drop, *Staphylococcus aureus* 5606

Subject index

Preservative (Contd),

food, benzoic acid, *Rhodotorula rubra*/*Cryptococcus albidus* 8530
 food, butylated hydroxy anisole 958
 food, *Byssoschlamys nivea* spores 3423
 food, cephalosporin derivatives 1313 2209
 food, cinnamyl phenols 532
 food, + fructose, antibacterial agent/antifungal agent 5593
 food, penicillin derivatives 1313
 food, *Pyssoschlamys nivea* 4252
 food, sorbic acid 8529
 food, sorbic acid, assay, *Rhodotorula rubra*/*Cryptococcus albidus* 8530
 food, sulphur dioxide, potentiometric sensing probe 5251
 food, thienamycin 651
 fruit 1254
 fungicide, animal feed 2794
 hydrazino-pyridine derivatives 2139
 leather 2053
 leather, bacteriostat/fungistat, benzisothiazolin-3-one derivatives 534
 mercapto-quinoxaline derivatives 504
 nasal solution 4702
 5-nitrofurylacrylic acid, wine 3359
 nitroperhydropyridodiazepine derivatives 2976
 non-sterile product 539
 paint 2053
 paint, bactericide/fungicide, triorganotin compounds/triorganolead compounds 2129
 paint, benzotriazine-1,4-dioxide derivatives 2091
 paint, fungistat/bacteriostat, benzisothiazole-3-one derivatives 534
 paper 2053
 penicillin derivatives 6554
 penicillins 3753
 1,10-phenanthroline, hydrocarbon/industrial fluid 475
 plywood, decay fungi 10032
 ruminant feed 9643
 silage 9643
 silage, *Bacillus subtilis* enzymes 3418
 soft contact lens 4700 4701
 textile 1254
 textile, benzotriazine-1,4-dioxide derivatives 2091
 thimersal, antibacterial agent 6539
 vegetable 1254
 wood 2854 4554 8012 8013
 wood, assay 10031
 wood, assay, contact agar-block method 10029
 wood, bactericide/fungicide, benzisothiazolinone + quaternary ammonium compound 4687
 wood, bactericide/fungicide, triorganotin compounds/triorganolead compounds 2129
 wood, bacteriostat/fungistat, benzisothiazolin-3-one derivatives 534
 wood, *Coniophora puteana* 4551
 wood, cryptosporiopsis, *Graphium* 4555
 wood, fungicide 2053 10033 10034 10035
 wood, hyalodendrin, *Graphium* 4555
 wood, hydrocarbon 1159
 wood, microbial pectinase 5041
 wood, *Portia vaporaria* 4551
 wood, *Schizophyllum commune* 8865
 wood, scytalidin, *Graphium* 4555
 wood, *Serpula lacrymans* 4551
 wood, soft rot 10020
 wood, soft rot fungi 10030
 wood, soft rot fungi, vermiculite burial test 472

Preserved food,

microbiological standards 8463

Pressure machine,

tree injection 7996

Preventol,

antifungal agent 7333

Prickly pear,

fruit, *Candida utilis*, protein 5903 5904

Prilocaine,

antibacterial agent 6495

Primula acaulis,

saponin, antifungal agent, *Candida* 2120

Primula obconica,

alfalfa mosaic virus 6290

Pringsheimia,

sannhemp 1082

Pristinamycin,

Neisseria gonorrhoeae 8118

Pristinamycin I,

resistance, *Streptococcus agalactiae*, R factor 3672

Pritchardia pacifica,

lethal yellowing, mycoplasma-like organism, oxytetracycline 8675

Pritchardia thurstonii,

lethal yellowing, mycoplasma-like organism, oxytetracycline 8675

Privet,

yellow mosaic virus 9886

Privy,

composting 3820

Probiotic,

Staphylococcus aureus 10153

Procaine,

antibacterial agent 6495

Prodigiosin,

metacyclo-, *Streptomyces longisporus ruber* 880 881

Serratia marcescens 2528 8424

Serratia marcescens, antibacterial agent 8188

undecyl-, *Streptomyces longisporus ruber* 879 yeasts 2170

Products of microorganisms: Acids, amino acids, peptides & proteins,

3-8, 807-823, 1624-1630, 2420-2447, 3227-3247, 4034-4055, 5019-5038, 5887-5911, 6827-6850, 7597-7606, 8313-8343, 9324-9349

Products of microorganisms: Carbohydrates & glycosides,

62-64, 869, 870, 1681-1686, 2510-2520, 3328-3332, 4118-4121, 5107-5112, 5982-5987, 6931-6936, 7671-7673, 8403-8411, 9443-9447

Products of microorganisms: Cytostatic & antitumour agents,

67-72, 873-878, 1690, 1691, 2523-2527, 3337, 3338, 4123-4127, 5120-5124, 5994-5999, 6939-6941, 7676, 8412-8420, 9454-9465

Products of microorganisms: Enzymes & cofactors,

9-56, 824-866, 1631-1680, 2448-2507, 3248-3324, 4056-4114, 5033-5101, 5912-5976, 6851-6928, 7607-7669, 8344-8399, 9350-9438

Products of microorganisms: General,

1, 2, 802-806, 1619-1623, 2415-2419, 3226, 4029-4033, 5015-5018, 5881-886, 6819-6826, 7594-7596, 8305-8312, 9318-9323

Products of microorganisms: Nucleic acids and metabolites,

65, 66, 871, 872, 1687-1689, 2521, 2522, 3333-3336, 4122, 5113-5119, 5988-5993, 6937, 6938, 7674, 7675, 9448-9453

Products of microorganisms: Others,

73-87, 879-891, 1692-1696, 2528-2541, 3339-3351, 4128-4150, 5125-5158, 6000-6008, 6942-6965, 7677-7690, 8421-8434, 9466-9490

Products of microorganisms: Steroids & hormones,

57-61, 867, 868, 2508, 2509, 3325-3327, 4115-4117, 5102-5106, 5977-5981, 6929, 6930, 7670, 8400-8402, 9439-9442

Proferrorosamine A,

Pseudomonas roseus fluorescens 5133 5134

Proflavine,

Escherichia coli pyruvate kinase 10163
 resistance, *Escherichia coli* 2101

Subject index

- Progenitor toxin,**
Clostridium botulinum 7081 9727
- Progesterone,**
hydroxylation, Aspergillus,
11alpha-hydroxyprogesterone 4115
reduction, Bacillus megaterium 61
transformation, Cy lindrocarpon rad icicola,
androsta-1,4-diene-3,17-dione,
1-dehydrotestololactone 5981
transformation, Cy lindrocarpon rad icicola,
androstadienedione 8400
transformation, Fusarium solani,
androsta-1,4-diene-3,17-diene,
1-dehydrotestololactone 5981
transformation, Fusarium solani,
androstadienedione 7670
- Proliferation disease,**
mycoplasma-like organism, apple, fluorescence
microscopy 1047
- Proliferobasidium,**
plant disease 1910
- Proliferobasidium heliconiae,**
Heliconia bihai 1910
- Proline,**
Arthrobacter 3230
Brevibacterium 3230
ergotamine 8421
Mycobacterium 3230
Propionibacterium shermanii 6832
- L-Proline,**
prodigiosin, Serratia marcescens 2528
- Polyldiketopiperazine,**
Elymus alkaloid 7677
- Promethazine,**
antibacterial agent 8980
assay, Bacillus subtilis 5640
- Prometryn,**
Aspergillus terreus, soil 7280
soil Rhizoctonia solani 8036
Trichoderma viride, soil 7280
- Protease,**
floc-forming Flavobacterium, activated sludge
6686
Streptomyces griseus, serine proteinase D,
serine proteinase E 8392
Streptomyces griseus,
trypsin/carboxypeptidase-like enzyme,
affinity chromatography 50
- Pronase-polyethylene glycol concentration,**
Rous sarcoma virus, tissue culture 4012
- Propachlor,**
degradation, soil microorganisms 5503
- Propanal,**
3-(methylthio)-, Saccharomyces cerevisiae
4136
- Propanediol dehydratase,**
Aerobacter aerogenes 6914
- Propanil,**
degradation, soil microorganisms 5503
- Propanol,**
3-(methylthio)-, Saccharomyces cerevisiae
4136
vaccinia virus 6736
wine yeasts, alcohol dehydrogenase 3358
yeast, alpha-keto acid decarboxylase, alcohol
dehydrogenase 6017
- Prophage,**
Escherichia coli, induction test, carcinogen
6775
- Propham,**
degradation, Bacillus sphaericus, aryl
acylamidase 901
degradation, soil microorganisms 5503
- Propionate,**
+ fructose, antibacterial agent/antifungal
agent 5593
food preservation 7794
Staphylococcus aureus, intermediate moisture
food 1782
- Propionibacter,**
josamycin/rosamicin/clindamycin 2190
- Propionibacterium,**
antibiotics 2974
cephalosporins 3010
cheese, selective medium 156
chlorhexidine 10152
corrinoide 140
Emmentaler cheese 2576
gas-liquid chromatography, phosphorus
pentoxide 1558
Litmus milk agar identification medium 10584
penicillins 3010
roll-streak method 1556
thin-layer chromatography 1262
- Propionibacterium acnes,**
amikacin 5630
ampicillin 5630
antibiotics/antibacterial agent 1306
cefoxitin 5630
cephalexin 5630
cephalothin 5630
chloramphenicol 5630
clindamycin 5630
dicloxacillin 5630
erythromycin 5630
gentamicin 5630
Litmus milk agar identification medium 10584
methicillin 5630
metronidazole 7323
nafcillin 5630
ornidazole 7323
oxacillin 5630
penicillin G 5630
serotyping/biotyping 3189
swine faeces,
culture/isolation/identification medium
4938
tests, impregnated disc method 10546
tetracycline 5630
tinidazole 7323
tobramycin 5630
vancomycin 5630
- Propionibacterium arabinosum,**
corrinoide 1692
- Propionibacterium avidum,**
antibiotics/antibacterial agent 1306
Litmus milk agar identification medium 10524
serotyping/biotyping 3189
- Propionibacterium freudenreichii,**
corrinoide 1692
waste treatment, hydrocarbon 2315
- Propionibacterium granulatum,**
antibiotics/antibacterial agent 1306
Litmus milk agar identification medium 10584
- Propionibacterium jensenii,**
corrinoide 1692
- Propionibacterium pentosaceum,**
corrinoide 1692
- Propionibacterium petersonii,**
corrinoide 1692
- Propionibacterium pituitosum,**
corrinoide 1692
- Propionibacterium raffinoseum,**
corrinoide 1692
- Propionibacterium rubrum,**
corrinoide 1692
- Propionibacterium sanguineum,**
corrinoide 1692
- Propionibacterium shermanii,**
cobinamide 76
corrinoide 1692
corrinoide, cheese whey medium 4133
fermented milk beverage, vitamin B12 + folic
acid enrichment 9544
milk protein hydrolysis, cheese 5221
porphyrin, cheese whey medium 4133
proline 6832
pyruvate, phosphate dikinase 4107
vitamin B12 6950 6951

Subject index

- Propionibacterium shermanii**(Contd),
vitamin B, sour milk product 8487
- Propionibacterium technicum**,
corrinoid 1692
- Propionibacterium thoenii**,
corrinoid 1692
- Propionibacterium ventii**,
corrinoid 1692
- Propionibacterium zeae**,
corrinoid 1692
- Propionic acid**,
animal feed preservation, *Salmonella* 7046
bread/sponge cake preservation 9684
cod viscera silage preservation 9648
colostrum microflora 7034
colostrum preservation, cattle feed 7036
dried potato pulp preservation 4233
fungistat 10167
grain preservation 1796
preservation, corn, cattle feed 209
silage fermentation 2601
silage preservation 7045
waste whey fermentation 4852
- Propionic acid bacterium**,
Lyophilised, chicken feed 6094
- N-Propionylholothin**,
Streptomyces 10373
- Proportioning pump**,
beverage, yeasts 4225
- 1-Propyl-1,2,4-triazolyl**,
derivatives, fungicide, plant protection 2018
- Propyl gallate**,
antibacterial agent/antifungal agent 5592
- Propyl-p-hydroxybenzoic acid ester**,
bactericide 4653
- Propylacetate**,
3-(methylthio)-, *Saccharomyces cerevisiae* 4136
- Propylene**,
microorganisms 4619
Mycobacterium convolutum 4619
soil microorganisms 4619
- Propylene oxide**,
dehydrated potato granules sterilisation 7051
- Propylparaben**,
soft contact lens preservative 4700
- L-5-Propylthiomethylhydantoin-S-oxide**,
antibacterial agent 5556
- Prosopis**,
bacteria, protein, cattle feed 197 822
Cytophaga johnsonae, protein, cattle feed 196
degradation, bacteria 8457
wood, *Brevibacterium protein* 3237
- Prosopis juliflora**,
wood, *Pseudoronas*, protein, feed cattle 4227
- Prostaglandin**,
derivatives, antifungal agent/antimicrobial agent 10195
3,5-diacetoxycyclopent-1-ene, microbial hydrolysis 889
beta-oxidation, microorganisms 9442
- Prostenolic acid**,
9-oxo-13-, hydroxylation, *Microascus trigonosporus* 3326
- Prostenolic acid amide**,
9-oxo-13-trans-, derivatives, antibacterial agent/antifungal agent 10194
- Protaminobacter**,
hydrocarbon 7291
- Protaminobacter ruber**,
+ *Rhizobium* + *Lotononis bainesii* 8905
vitamin B12 6001
- Protaminobacter thiaminophagus**,
L-lysine 7601
- Protease**,
Actinomyces thermovulgaris 6915
Aspergillus flavus 3316
- Protease**(Contd),
Aspergillus melleus, beer wort 4157 4158
Aspergillus niger, beer wort 4157 4158
Aspergillus oryzae 7651
Aspergillus terricola 8349 8389
Bacillus 5972 9430
Bacillus brevis 42
Bacillus licheniformis, chemostat culture 5913
Bacillus megaterium spore 4103
Bacillus mesentericus 1663
Bacillus subtilis 2493 5043
Bacillus subtilis, immobilisation 9352 9353
Bacillus subtilis, silage preservative 3418
bacterial, milk 6997
bacterial, milk, ultra-high temperature sterilisation 216
bacterial, protein hydrolysate, soft beverage 5971
Bacteroides 3249
blood-coagulating, *Cephalosporium* 7653
Candida lipolytica 7652
Cephalosporium sacchari, sugarcane 4347
Endothia parasitica, milk beta-casein 7001
Erwinia carotovora, potato 4102
food additive, sterilisation, gamma-radiation 1781
fradiase, *Streptomyces fradiae*, animal feed microflora 43
fungal, beer wort 7698
Fusarium coeruleum, potato 8718
Fusarium sulphureum, potato 8718
immobilisation 4057
immobilisation, microorganisms 2
immobilised, cheese 6546
lactic acid bacteria, cheese 7003 7004
Lactobacillus bulgaricus, cheese 7004
Lactobacillus helveticus, cheese 7004
Leuconostoc citrovorum, cheese 7004
metal, *Bacillus subtilis* 2494
metallo-, *Serratia marcescens* 3292 3293
microbial 5041
microbial, affinity chromatography, carbobenzoxy-D-phenylalanyl-triethylenetetramine Sepharose 509C
microbial, aroma compound 8425
microbial, beer wort 8443
microbial, food 134
microbial, hide treatment 8386 8387
microbial, immobilised 3248 5040
microbial, soil, urea 3657
microbial, *Streptomyces pseudogriseolus* protease inhibitor AP-1 3247
microbial, xanthan gum clarification 5111
microbial, xanthan gum clarification 3332
Micrococcus caseolyticus 6067
Micrococcus caseolyticus, cheese 7004
Micromonospora vulgaris 2496
Microporum gypsum 6815
milk-clotting, *Bacillus mesentericus* 9418
Monascus anka 8498
Mucor miehei, milk beta-casein 7001
Mucor pusillus, milk beta-casein 7001
Myxobacter AL-1, *Penicillium janthinellum* penicillopepsin 2492
Neurospora sitophila 8390
penicillinase-releasing, *Bacillus licheniformis* 3312
Penicillium caseicolum 9431
Penicillium caseicolum, cheese 7004
Penicillium dupontii, + ethylene-maleic acid linear copolymer 2497
Penicillium javanicum 8391
Penicillium roqueforti 7654
Penicillium roqueforti, cheese 7004
penicillopepsin, *Penicillium janthinellum* 2489 2490 2491 2492
penicillopepsin, *Penicillium janthinellum*, structure 1667
Pseudomonas aeruginosa, plant disease 6916

Subject index

Protease(Contd),

removal, *Bacillus subtilis* extract 6820
Rhizopus chinensis 7654
Rhizopus niveus, affinity chromatography, carbobenzoxy-D-phenylalanyl-triethylenetetramine Sepharose 5090
Rhizopus niveus, beer wort 4157 4158
Saccharomyces lactis, cheese 7004
Saccharomycopsis lipolytica 7655
serine, *Bacillus subtilis* 2494 3313
Serratia marcescens 5091 8388
Serratia marcescens, *Galleria mellonella* 6917
soil fungi 6815
Staphylococcus, agar plate tests 2417
Staphylococcus aureus, *Penicillium janthinellum* penicillopepsin 2492
Staphylococcus, *Staphylococcus aureus* alpha-toxin degradation 2651
Streptococcus cremoris, cell wall-associated, milk, cheese 5220
Streptococcus cremoris, cheese 7004
Streptococcus diacetylactis 6908
Streptococcus diacetylactis, cheese 7004
Streptococcus thermophilus, cheese 7004
Streptomyces alboviridescens subtilisin inhibitor 4050
Streptomyces echinatus 5089 5970
Streptomyces griseus, immobilisation 7650
Streptomyces noursei 5089 5970
Streptomyces olivaceus 6918
Thermomonospora viridis 4067
thermophilic fungi 9350
Trichoderma viride cellulase 5057

Protease A-1,

Scytalidium lignicolum 2498 2499

Protease A-2,

Scytalidium lignicolum 2498 2499

Protease B,

Scytalidium lignicolum 2499

Protease I,

Escherichia coli 2495

Protease inhibitor,

Actinomyces 6962

Actinomyces, human complement 5907

Streptomyces pseudogriseolus, + *subtilisin* 2466

Protease inhibitor AP-1,

Streptomyces pseudogriseolus 3247

Protection of materials: Others,

469-472, 1182, 2090, 2091, 2908, 7285, 7286, 8040, 8041, 8934, 10092, 10093

Protection of materials: Textiles, paper & related products,

468, 1182, 2906, 2907, 3660, 4614, 4615, 10091

Protein,

5829 5830 5900

+ cefaxolin, protein, + cephalosporin derivatives 3771

+ cephaloridine 3771

+ cephalosporin derivatives, assay 3770

+ cephalothin 3771

+ RNA, *Escherichia coli* ribosome 5988

Absidia corymbifera 1622

Acholeplasma, polyacrylamide gel isoelectric focusing 3211

actin-like, *Escherichia coli* 6846

Alcaligenes faecalis 8327

Aspergillus, ethanol 2428

Aspergillus fumigatus, cassava, food 2564

Aspergillus, methanol 2428

Aureobasidium pullulans, straw hydrolysate, food/animal feed 4054

Azotobacter chroococcum 5899

Bacillus alvei alveolysin 9726

Bacillus brevis 3234

Bacillus, hydrocarbon 9320

Bacillus subtilis, nucleic acid content reduction, food 3380

Protein(Contd),

Bacillus thuringiensis, antitumour agent, Yoshida ascites sarcoma 67

bacteria 3234

bacteria treatment, bacteria 2313

bacterial 8327

bacterial, mesquite 822

bacterial, mesquite, cattle feed 197

bacterial, methanol 767

bacterial, poultry waste treatment 2314

Botrytis, ethanol 2426

Botrytis, methanol 2428

Erevibacterium, mesquite wood 3237

Candida, animal feed 1765

Candida boidinii, fatty acid, glucose/hydrocarbon 5906

Candida krusei 5037

Candida lipolytica, food, hydrocarbon, ribonuclease 1717

Candida lipolytica, hydrocarbon 6468

Candida methanolica, methanol 780

Candida scottii, peat + wood neutralisates 2433

Candida tropicalis, alkane, food/animal feed 4169

Candida tropicalis, fatty acid, glucose/hydrocarbon 5906

Candida tropicalis, food, hydrocarbon, ribonuclease 1717

Candida tropicalis, hydrocarbon 485

Candida utilis 8342

Candida utilis, cattle manure, animal feed 9615

Candida utilis, ethanol 4055 5038 5905

Candida utilis, fatty acid, glucose/hydrocarbon 5906

Candida utilis, food 1718

Candida utilis, nopal fruit 5903 5904

Candida utilis, tower cycling fermenter 5902

Candida utilis, waste treatment liquor 8341

Cellulomonas flavigena 8327

cephalosporin-binding, *Escherichia coli* 5034 6847

Chaetomium cellulolyticum 6840

Chaetomium cellulolyticum, wheat straw 9347

corn fermentation, aflatoxins 9707

cottonseed food product, *Clostridium*

perfringens 5201

Cunninghamella elegans, sewage sludge degradation 1465

Cytophaga johnsonae, mesquite, cattle feed 196

dicarboxylic acid-binding, *Pseudomonas aeruginosa* 2437

envelope, *Eordetella pertussis*, radiolabelling, iodine-125-lactoperoxidase 4943

enzymatically-active, microbial cell membrane 5912

Escherichia coli K99 antigen 5135

fimbrial, *Moraxella nonliquefaciens* 6849

Fusarium, ethanol 2428

Fusarium, food 2563

Fusarium, methanol 2428

galactose-binding, *Escherichia coli* 5033

Geotrichum candidum, animal feed 198

glucose-binding, *Pseudomonas aeruginosa* 2437

glyco-, growth factor, soil microorganisms 7682

glyco-, luciferase, *Photobacterium leiognathi* 9415

haem, lipoxigenase-like enzyme, *Fusarium oxysporum* 2478

Hansenula polymorpha, methanol 821 9348

histone-like, *Kluyveromyces fragilis* 2438

hydrogen bacterium, culture 10563 10564

Hydrogenomonas, animal feed 6098

hydrolysate, bacterial protease, soft beverage 5971

Subject index

Protein(Contd),

hydrolysate, lysine, assay, *Leuconostoc mesenteroides* 5204
hydrolysate, methionine, assay, *Leuconostoc mesenteroides* 5204
Hyphomicrobium variabile, food, animal feed 4244
influenza virus, vaccine 3821
iron-chlorin, *Aspergillus niger* 4052
iron, *Rhodospirillum rubrum* nitrogenase 3245
iron-sulphur, *Desulphovibrio gigas* 2442
iron-sulphur, *Pseudomonas* 7
iron-sulphur, *Pseudomonas ovalis* 1430
Kluyveromyces fragilis, food 1718
Kluyveromyces fragilis, food, waste whey 6034
Lactobacillus, amino acids, digestibility 4237
Lactobacillus bulgaricus, ruminant feed 4226
leucine/isoleucine/valine-binding, *Escherichia coli*, structure 7605
leukotoxisis-stimulating, *Eordetella pertussis* 4043
meat, microorganisms 5230
membrane, *Acholeplasma laidlawii*, Tween 20, agarose-suspension electrophoresis 5897
membrane, *Micrococcus lysodeikticus* 2436
methionine-binding, *Aspergillus nidulans* 8
Methylococcus capsulatus 9342
Methylomonas flagellata, methane 2914
Methylomonas, methanol, formaldehyde 5901
Methylomonas rethanolica, formaldehyde 5900
Methylomonas methanolica, formate 5900
Methylomonas methanolica, methanol 5900
Methylomonas methanolica, methanol, food, animal feed 9341
Methylomonas methanolica, methylamine 5900
Methylomonas methylotrophus, pig feed 6100
Methylophilus methylotrophus, methanol 9340
microbial 82 4053 7607 8337 8378
microbial, animal feed 910 945 1619 1766 2556 2557 5516
microbial, animal feed/food, methanol 820
microbial, cattle manure, animal feed 9615
microbial, cellulose 5881
microbial, cellulose waste 6 5896
microbial, chicken feed 7778
microbial, fermentation apparatus 1629
microbial, food 910 1715 3379 8339
microbial, hydrocarbon 3662
microbial, hydrocarbon, food/feed 3664
microbial, immobilisation 9352
microbial, immobilisation, concanavalin A-magnetite 8305
microbial, lignocellulose waste, animal feed 3242
microbial, methanol 3235 9348
microbial, methanol, food 9343
microbial, methanol, pig feed 6099
microbial, nucleic acid content reduction, food 3380
microbial, pig feed 5241
microbial, stirred-tank fermenter 4154
microbial, sunflower seed husks 8340
microbial, tower cycling fermenter 5902
microbial, wastewater 3236
Micrococcus, alkane 10098
Microcylus polymorphum, food, animal feed 9344
milk, hydrolysis, *Brevibacterium linens*, cheese 5221
milk, hydrolysis, *Propionibacterium shermanii*, cheese 5221
milk, hydrolysis, *Streptococcus cremoris*, cheese 5221
milk, hydrolysis, *Streptococcus lactis*, cheese 5221
mixed microbial culture, methane 8266
mixed microbial culture, methanol 8266
Mucor mucido 6841

Protein(Contd),

mushroom 7776
mushroom, amino acids 5236
Myrcella, polyacrylamide gel isoelectric focusing 3211
oilseed, microorganisms, food 4191
Paezilomyces, cassava, food 2564
Paezilomyces varioti 8342
penicillin-binding, *Escherichia coli* 4761 5034 5905 6847
Penicillium dicitatum 2429 2431
Penicillium dicitatum, potato starch waste medium 2431
Penicillium, ethanol 4280
Penicillium, methanol 4280
olant juice, microbial fermentation/coagulation 7026
Pleurotus ostreatus, lignocellulosic waste degradation, cattle feed 10448
Pseudomonas 9342
Pseudomonas aeruginosa cytoplasmic membrane 6021
Pseudomonas aeruginosa outer membrane 6821
Pseudomonas, formaldehyde 5900
Pseudomonas, formate 5900
Pseudomonas inaudita, methanol 5036
Pseudomonas, mesquite wood, cattle feed 4227
Pseudomonas methanica 9342
Pseudomonas methanica, methanol 821
Pseudomonas, methanol 5900
Pseudomonas, methylamine 5900
Pseudomonas methylotrophus, chicken feed, methanol 9614
Pseudomonas methylotrophus, food, animal feed 9344
Pseudomonas methylotrophus, formaldehyde 5900
Pseudomonas methylotrophus, formate 5900
Pseudomonas methylotrophus, methanol 5900
Pseudomonas methylotrophus, methanol, chicken feed 2598
Pseudomonas methylotrophus, methylamine 5900
Pseudomonas oxalaticus 9342
Pseudomonas rosea, food, animal feed 9344
Pseudomonas rosea, formaldehyde 5900
Pseudomonas rosea, formate 5900
Pseudomonas rosea, methanol 5900
Pseudomonas rosea, methylamine 5900
Pseudomonas utilis, methanol 5036
Rhizobium, nitrogen fixation 2883
Rhizopus cohnii 6842
Rhizopus oligosporus 1622
Rhizopus rhizopodiformis 1622
Rhodopseudomonas capsulatus, food 8343
Rhodopseudomonas gelatinosa, agricultural waste 3238
Rhodotorula, alfalfa whey 6839
Rhodotorula glutinis, animal feed 6035
Rhodotorula glutinis, food 6035
Rhodotorula glutinis, wastewater, animal feed 4228
rubredoxin, *Acinetobacter calcoaceticus* 2447
rumen bacteria, digestibility, buffalo 6096
rumen bacteria, digestibility, goat 6096
Saccharomyces, alfalfa whey 6839
Saccharomyces cerevisiae 5037 8342
Saccharomyces cerevisiae, autolysis, food 8312
Saccharomyces cerevisiae, autolysis, nucleic acid reduction 2435
Saccharomyces cerevisiae, cellulose waste 2544
Saccharomyces cerevisiae, fatty acid, glucose/hydrocarbon 5906
Saccharomyces cerevisiae, food 8339
Saccharomyces cerevisiae, food/animal feed 8471
Saccharomyces cerevisiae, heat-dried/lyophilised, food/animal feed 7726
Saccharomyces cerevisiae, mutation 823

Subject index

rotein (Contd),

Saccharomyces cerevisiae, nucleic acid content reduction, food 3380
 Saccharomyces cerevisiae, RNA autolysis 9347
 Saccharomyces cerevisiae, RNase, RNA 6920
 Saccharomyces fragilis, whey, food/animal feed 3381
 Saccharomycetaceae, animal feed 912
 Saccharomycetaceae, food 912
 Serratia marcescens endonuclease 5063
 serum, Mycorlasma 2402
 soybean, + beef, patties, bacteria 7764
 soybean, + chicken, patties, bacteria 7764
 soybean food product, Clostridium perfringens 5201
 SP127, Bacillus brevis, macrolide antibiotics, Pseudomonas aeruginosa 8334 8335
 Sporotrichum thermophile, cassava, food 2564
 Staphylococcus aureus, alpha-toxin 7092 9738
 Thermoactinomyces celluloseae, cellulose/lignocellulose degradation 9345
 Torula, poultry feed 7033
 Torula utilis, chicken feed 5242
 Torulopsis methanolovescens, methanol 780
 Trametes versicolor, whey 1621
 Trichoderma, ethanol 2428
 Trichoderma lignorum, methanol batch culture 6843
 Trichoderma, methanol 2428
 Trichoderma viride, cattle manure, animal feed 9415
 Trichoderma viride, corn residues, animal feed 9611
 Trichoderma viride + Saccharomyces cerevisiae/Candida utilis 3239
 Trichoderma viride, wheat straw 9347
 Tyromyces albellus, whey 1621
 Ureaplasma urealyticum, polyacrylamide gel isoelectric focusing 3211
 vaccinia virus, polyacrylamide gel electrophoresis 10641
 vegetable, Geotrichum candidum maceration 4221
 waste treatment 5786
 waste treatment, glass fermenter bottom outlet valve 4919
 wheat fermentation, aflatoxins 9707
 yeast, ethanol 3240 5905
 yeast, food 9346
 yeast, hydrocarbon, food/feed 133
 yeast, paraffin, pig feed 1767
 yeast, pasta product 3404
 yeast, peat hydrolysate medium 2434
 yeast, waste cellulose 2432
 yeasts, soybean whey culture medium 6838

rotein A,

Staphylococcus aureus 7606
 Staphylococcus aureus, agglutination test 3994
 Staphylococcus aureus, rubella serology 503
 Staphylococcus aureus, solid-phase radioassay 8288
 Staphylococcus, slide co-agglutination, Streptococcus 1578

rotein-like activator,

Pseudomonas aeruginosa, alkane oxidation 10099

rotein-lipopolysaccharide,

Erwinia chrysanthemi, Pseudomonas syringae, tobacco 3594

rotein stain,

1-anilino-8-naphthalene sulphonic acid magnesium salt, fluorescence staining, microorganisms 3158

Protein-vitamin concentrate,

yeast, food/animal feed 3241

Proteinase,

Aspergillus oryzae, soy sauce 5183
 Aspergillus saitoi, affinity chromatography 3311
 Aspergillus sojae, soy sauce 5183
 Aureobasidium pullulans, paint film degradation 4177
 Bacillus 1672
 Bacteroides nodosus 5092
 Candida lipolytica 2501
 Candida lipolytica, cheese-like flavour 4204
 Clostridium perfringens exotoxin 8561
 fungal, paper deacacation 2551
 metallo-, Chromobacterium lividum 2500
 metalloenoo-, Bacillus subtilis, chromatography 3291
 Streptomyces alioopriseolus subtilisin inhibitor 4051
 yeast, phosphofructokinase 4104

Proteinase D,

serine, Streptomyces oriseus 8392

Proteinase E,

serine, Streptomyces criseus 8392

Proteinase I,

Aspergillus sojae 860

Proteinase II,

Aspergillus sojae 860

Proteinase inhibitor,

bean, Fusarium solani/Fusarium culmorum/Fusarium avenaceum/Potrytis cinerea 2792
 microbial 8333

Proteinase protein,

Streptomyces alioopriseolus subtilisin inhibitor 4051

Proteins,

yeasts, sulphite waste liquor + ethanol 9322

Protensterol,

Clitocybe nebularis 5105
 Rhodopaxillus nudus 5105
 Tricholoma portentosum 5105

Proteocine,

Protesu 4044
 Proteus mirabilis 2441
 Proteus vulgaris 2441

Proteolysis,

gelatin, Pseudomonas denitrificans, alkane 10100
 milk, Streptococcus cremoris 7000
 psychrotrophic bacteria, milk 142

Proteolytic enzyme,

Actinomyces hygroscopicus 5093
 Actinomyces spheroides, culture medium 44
 Aspergillus niger, citric acid fermentation flow-off 8384
 Bacillus firmus 1671
 Clostridium botulinum 6919
 microbial, soil, urea 3657
 Thermoactinomyces vulgaris, yeast cell wall 32

Proteolytic enzyme complex,

Bacillus mesentericus 8385

Proteolytic malt,

Bacterium delbrueckii 1698

Proteus,

abattoir disinfectant 4897
 acyl derivatives 497
 amikacin 2189 3758
 aminoglycoside antibiotics 1319 3755
 antibacterial agent/antibiotics 1304
 antibiotic A16284 6619
 antibiotic G-52 1398
 antibiotic sensitivity testing 4720
 antibiotics 2993 2995 4721 6557 6565 7368 10241
 antibiotics resistance 4632
 azlocillin 8155
 benzylacrylonitrile derivatives 500
 carbenicillin + gentamicin 7382
 carbenicillin + sisomicin 7381 7382 381

Subject index

Proteus (Contd),

carbonamidouinoxaline-di-N-oxide derivatives 1226
 cefaclor 10272
 cefamandole 3772
 cefatrizine 588
 cefazafur 7401
 cefoxitin 3773
 cephacetrile + amikacin/gentamicin/sisomicin/tobramycin 6555
 cephalosporin derivative 1329
 cephalosporin derivative FR10024 5661
 cephalosporin derivatives 1340 7394 8124
 cephalosporin SQ 67,590 5662
 cephalosporins 2195 9060
 cephalothin/cefamandole/cefoxitin 1325
 chlorhexidine 10152
 cloxacillin + amoxycillin 8149
 colistin 4725
 copper, intensive care unit 2347
 dicloxacillin + ampicillin 8149
 doxytetracycline 7313
 flucloxacillin + amoxycillin 8149
 formic acid 8317
 garlic 10143
 gentamicin 2189 3758 5684
 gentamicin + azlocillin 7383
 gentamicin + carbenicillin 7383
 gentamicin + mezlocillin 7383
 gentamicin resistance 8958
 gentamicin resistance, tobramycin 6484
 gentamicin/sisomicin/tobramycin 6562 6563
 gentamicins 9090
 hospital food 126
 Indian mackerel, gamma-irradiation 4245
 indole-positive, netilmicin/gentamicin/tobramycin/amikacin 2185
 indole-positive, netilmicin/gentamicin/tobramycin/amikacin/sisomicin 2184
 indole-positive, terizidone 650
 beta-lactam antibiotics 9049
 beta-lactamase, Streptomyces beta-lactamase inhibitor 3347
 mezlocillin 5672
 nalidixic acid 4664
 netilmicin 1429 10392
 netilmicin/gentamicin/amikacin 4741
 netilmicin/gentamicin/tobramycin/amikacin 5750
 netilmicin/gentamicin/tobramycin/sisomicin 5751
 nitrofurantoin derivatives 1220
 oxolinic acid 528 5563
 packaged minced meat 2583
 PathoTec system 7540
 penicillin derivatives 1358 9085
 polymyxin B 4725
 polymyxins 4727
 proteocine 4044
 proticene typing 5849
 rapid KCN-test 3170
 resistance, doxytetracycline 7313
 resistance, tetracycline 7313
 rifampicin 9100
 rifampicin resistance 9100
 rosamicin monoesters 5760
 selective medium 3162
 sewage, antibiotic + inorganic metal resistance 2925
 sisomicin 2189 3758 4825 6652 10406
 sisomicin + azlocillin 7383
 sisomicin + carbenicillin 7383
 sisomicin/gentamicin 7387
 sisomicin + mezlocillin 7383
 skin 4904
 sodium acetate medium 7556
 sulphadiazine + antibiotics, resistance 8945

Proteus (Contd),

sulphafurazole 4725
 sulphafurazole + polymyxins 4725
 sulphamethoxazole-trimethoprim 2941 4727 7319
 sulphamethoxazole-trimethoprim + polymyxins 4727
 sulphamethoxypyrazine 10150
 sulphamethoxypyrazine-trimethoprim 10150
 surface water 3131
 test 1559
 tests 1565
 tetracycline 7313
 tetracycline resistance 10130
 tobramycin 528 2189 3758
 tobramycin resistance 8958
 Tribissen (sulphadiazine + Trimethoprim) 2939
 tricarcillin/antibiotic BL-P1654/carbenicillin 605
 trimethoprim 10150
 beta-ursolic acid 6532
 vacuum-packaged trout, gamma-irradiation 5258
 white pomfret, gamma-irradiation 4245
Proteus hauseri,
 antibiotics 10244
 antibiotics resistance 10244
Proteus mirabilis,
 3-deoxybutyrosin A 2253
 3-deoxydehydrostreptomycin 6594
 5-amino-5-deoxybutyrosin 1409
 5-hydroxy-1-[[[(5-nitro-2-furyl)methylene]amino]-2,4-imidazolidinedione] 7321
 7-(2-aminomethylphenylacetamido)-3-(1-carboxymethyltetrazol-5-ylthiomethyl)-cepham-4-carboxylic acid 7398
 amikacin 3758 7427
 ampicillin, sensitivity test broth/urine 3009
 animal waste treatment, methane + animal feed 6714
 antibacterial agent 5752
 antibacterial agent/antibiotic 1214
 antibiotic B371 5706
 antibiotic BM 123 3058
 antibiotic G-52 1397
 antibiotic G-418 1400
 antibiotic No. K-73 3803
 antibiotic resistance 4634
 antibiotic sensitivity testing 4718 4718
 antibiotic XK-90 5710
 azetidinone derivatives 3687
 bacteriostat/bactericide 1256
 bacteriostat, diaper 5817
 benzo-1,2,4-triazines 1225
 benzotriazine-1,4-dioxide derivatives 2091 2118
 beta-aminoketones 2108
 carbenicillin, sensitivity test broth/urine 3009
 carbenicillin + sisomicin 7382
 cefaclor 10272
 cefaclor/cephalexin 10271
 cefamandole, anaerobiosis 6547
 cefazafur 7401
 cefazolin, anaerobiosis 6547
 cefazolin, sensitivity test broth/urine 3009
 cefoxitin 1332 3773
 ceftazidime 5654
 cephalexin/cephradine/cefactor 6578
 cephalosporin antibiotic FR10612 2187
 cephalosporin derivative FR10024 5661
 cephalosporin derivatives 1335 2198 5665 8140
 cephalosporin R-sulphoxides 5637
 cephalosporins 2178 2194 2195 3016 3766
 cephalosporins/ampicillin 2177
 cephalothin 5657
 cephalothin, anaerobiosis 6547

Subject index

Proteus mirabilis(Contd),

cephalothin/cefamandole/cefoxitin 1325
cephalothin, sensitivity test broth/urine 3009
chelocardin anilino derivatives 3064 5726
5-chloro-2-(2,4-dichlorophenoxy)phenol, toilet bowl 4891
5-chloro-2-(2,4-dichlorophenoxy)phenol, toilet bowl cleanser 6730
colistin 4725
2-deoxystreptamine-aminoglycoside derivatives 6560
D-3,6-diaminohexanoic acid
2-(carboxymethyl)-2-methylhydrazine 2151
disinfectant 6727
enantio-[1-valine]-malformin 3692
food, *Streptococcus* group D enterococci 2559
fortimicin A 8181
gentamicin 3758 5684
gentamicin, anaerobiosis 6547
gentamicin C1 derivatives 2225
gentamicin C1a derivatives 5685
gentamicin C2 derivatives 617
gentamicin + nalidixic acid, microdilution transfer plate technique 5627
gentamicin/sisomicin/tobramycin 6563 6564
hospital intensive care unit 3916
L-form, DD-carboxypeptidase 4069
beta-lactam antibiotics 9049
beta-lactamase, clavulanic acid 8178
lipopolysaccharide, antitumour agent 3337
mecillinam/6-aminopenicillanic acid/ampicillin 6583
morganocin 5910
MORLUC numeric system 1567
nalidixic acid 4664
naphthyridine derivatives 2945
nebramycin 2265
netilmicin 3814
netilmicin/gentamicin/amikacin 4741
netilmicin/gentamicin/tobramycin 10393
netilmicin/gentamicin/tobramycin/amikacin 2185 5750
netilmicin/sisomicin 3815
netilmicin/gentamicin/tobramycin/sisomicin 5751
nitrofurantoin derivatives 1220
nitroimidazolyl-acetylpropenoic acid derivatives 2136
novoblocin selective medium 6785
penicillanic acid derivatives 6591
penicillin derivatives 1352 1353 6589 6590 7405 7406 7408
penicillin *Escherichia coli* 1350
penicillin R-sulphoxides 5637
penicillin, sensitivity test broth/urine 3009
penicillins 2178
polymyxin B 4725
polymyxins 4727
proteocines 2441
pyrano-indole derivatives 7349
pyrimidine derivatives 502
rapid KCN-test 3170
sisomicin 3758 4825 6651 6652
sisomicin/gentamicin 3757
sulphacycline 528
sulphafurazole 4725
sulphafurazole + polymyxins 4725
sulphamethoxazole-trimethoprim 4727
sulphamethoxazole-trimethoprim + polymyxins 4727
sulphanilamide-metal complexes 10148
terizidone 650 5555
thienamycin 651
ticarcillin, sensitivity test broth/urine 3009
tobramycin 3078 3758 4827
tobramycin, anaerobiosis 6547
triazolo-pyridazine derivatives 2117
tryptophan synthetase alpha2beta2 complex 51

Proteus mirabilis(Contd),

enantio-[1-valine]malformin 4655
verdamycin 1 562

Proteus morganii,

3-deoxybutyrosin A 2253
5-amino-5-deoxybutyrosin 1409
amikacin 7427
amikacin/gentamicin/kanamycin/sisomicin/tobramycin 7384
antibiotic G-418 1400
antibiotic No. K-73 3803
antibiotic TA 6621
antibiotic XK-90 5710
benzo-1,2,4-triazines 1225
benzotriazine-1,4-dioxide derivatives 2091 2118
cefoxitin 1332
cephacetrile + amikacin/gentamicin/sisomicin/tobramycin 6555
cephalosporin derivatives 8140
cephalosporinase 6879
cephalosporinase, carbenicillin 8156
cephalosporins 3016
cephamycin derivatives 6575
colistin 4725
colistin resistance 10129
cysteine desulphydrase, L-cysteine 6829
fortimicin A 8181
gentamicin C1 derivatives 2225
gentamicin C1a derivatives 5685
gentamicin C2 derivatives 617
industrial product pollution 4848
beta-lactamase, isoelectric focusing 8368
morganocin 5910
MORLUC numeric system 1567
nalidixic acid 4664
naphthyridine derivatives 2945
nebramycin 2265
netilmicin 3814
netilmicin/gentamicin/tobramycin 10393
netilmicin/sisomicin 3815
nitrothiazole derivatives 1269
oxamicetin 3073
penicillin derivatives 6589 6590 7405 7406 7408
phenoxycetamido-nitrothiazole derivatives 2973
phenylglycylcephalosporins 576
polymyxin B 4725
polymyxins 4727
pyrimidine derivatives 502
sisomicin 6651
sulphafurazole 4725
sulphafurazole + polymyxins 4725
sulphamethoxazole-trimethoprim 4727
sulphamethoxazole-trimethoprim + polymyxins 4727
surface water 3131
terizidone 5555
tobramycin 3078
Proteus rettgeri,
3-deoxydehydrostreptomycin 6594
5-amino-5-deoxybutyrosin 1409
antibiotic G-418 1400
antibiotic No. K-73 3803
antibiotic resistance 1201
antibiotic XK-90 5710
benzo-1,2,4-triazines 1225
benzotriazine-1,4-dioxide derivatives 2091 2118
bile-esculin agar 9272
cephacetrile + amikacin/gentamicin/sisomicin/tobramycin 6555
cephalosporin derivatives 1334 1335
cephalosporin R-sulphoxides 5637
cephalosporins 2203
colistin 4725
colistin resistance 10129
fortimicin A 8181

Subject index

Proteus rettgeri (Contd.)

gentamicin C1a derivatives 5685
 gentamicin resistance 8958
 gentamicin/tobramycin resistance 4643
 immobilisation 803
 lividomycin B derivatives 1422
 MORLUC numeric system 1567
 nalidixic acid 4664
 nebramycin 2265
 negamycin analogues 642
 netilmicin 3814
 netilmicin/gentamicin/tobramycin 10393
 netilmicin/sisomicin 3815
 penicillanic acid derivatives 606 6591
 penicillin derivatives 6589 6590 7405 7406 7408
 penicillin R-sulphoxides 5637
 polymyxin B 4725
 polymyxins 4727
 sisomicin 6651
 sulphafurazole 4725
 sulphafurazole + polymyxins 4725
 sulphamethoxazole-trimethoprim 2941 4727
 sulphamethoxazole-trimethoprim + polymyxins 4727
 terizidone 5555
 tobramycin 3078
 L-tryptophan 6833

Proteus vulgaris

3-deoxybutyrosin A 2253
 5-amino-5-deoxybutyrosin 1409
 6-(alpha-3-acyl-ureidoacetamido)-penicillanic acids 7410
 6beta-acylamino-6-alpha-alkoxy penicillins 2173
 7-(2-aminomethylphenylacetamido)-3-(1-carboxymethyltetrazol-5-ylthiomethyl)-cepham carboxylic acid-4-carboxylic acid 7398
 7beta-acylamino-7-alpha-alkoxy cephalosporins 2173
 alpha-sulphocephalosporins 5659
 amikacin 7427
 amikacin/gentamicin/kanamycin/sisomicin/tobramycin 7384
 ampicillin 10269
 antibacterial agent 469 4693
 antibacterial agent, non-woven fibres 8040
 antibiotic AV290 alkylated derivatives 1394
 antibiotic No. K-73 3803
 antibiotic NRC-501 3060
 antibiotic P-3355 2244
 antibiotic sensitivity testing 4718
 antibiotic U-48266 4789
 antibiotic XK-90 5710
 antibiotics, marsh bacteria 3056
 assay, Limulus lysate test 10551
 azetidinone derivatives 3687
 Bacillus subtilis antibiotic 9028
 bacteriostat, diaper 5817
 benzazepine derivatives 3686
 benzo-1,2,4-triazines 1225
 benzotriazine-1,4-dioxide derivatives 2091 2118
 bile-esculin agar 9272
 cefoxitin 1332
 cefoxitin/cefuroxime/cephalothin 5656
 cephaectrile + amikacin/gentamicin/sisomicin/tobramycin 6555
 cephalosporin derivative 1328 1329
 cephalosporin derivatives 571 573 1316 1335 1337 1338 1339 2198 2211 2212 3768 5665 6569 8142 8143 9068 9069
 cephalosporins 2174 2201 10269
 cephamycin-type antibiotic 7399
 chelocardin anilino derivatives 3064 5726
 chicken manure, composting 8222
 chloramphenicol + hexamethylenetetramine 2226
 N-chlorocarboxylic acid derivatives 529

Proteus vulgaris (Contd.)

colistin 4725
 colistin resistance 10124
 culture 8280
 cycloalkyl-4-oxoquinoline-3-carboxylic acid derivatives 2141
 deoxyribonuclease-indole medium 7541
 D-3,6-diaminohexanoic acid 2-(carboxymethyl)-2-methylhydrazine 2151
 dimorhoisocyanuric acid, hand disinfection 1518
 dihalopyrrolyl di-/trihalomethyl ketones 2943
 enantio-[1-valine]-malformin 3692
 enterocin 1415
 cyclic-erythromycin A 6,9-hemiacetal carbonate L-aspartate 5688
 fortimicin A 8181
 gelatine/casein hydrolysis, food 8470
 gentamicin C1 derivatives 2225
 gentamicin C1a derivatives 5685
 gentamicin C2 derivatives 617
 gentamicin + prednisolone 1371
 iodine disinfectant 8253
 juvenimicins 7433
 kanamycin B derivatives 6596
 kanamycin derivatives 3785
 kasugamycin guanidino derivatives 3808
 beta-lactam antibiotics 9049
 mercapto-quinoxaline derivatives 504
 MORLUC numeric system 1567
 nalidixic acid 4664
 nebramycin 2265
 negamycin analogues 642
 netilmicin 3814
 netilmicin/gentamicin/tobramycin 10393
 netilmicin/sisomicin 3815
 nitrothiazole derivatives 1269
 nocardicin A 1434
 nocardicin B 7440
 oxamicetin 3073
 penicillanic acid derivatives 606 3040 6591
 penicillin derivatives 1316 1350 1352 1353 6589 6590 7405 7406 7408
 penicillins 2174
 phenoxyacetamido-nitrothiazole derivatives 2973
 piperazinoethyl-dihydroindolo-benzazepine derivatives 2948
 plant extracts 10141
 polymyxin B 4725
 polymyxins 4727
 proteocines 2441
 pyrano-indole derivatives 7349
 pyrimidine derivatives 502
 pyrrole-2-carboxamide derivatives 3139
 pyrrolidine derivatives 9006
 quaternary ammonium compound 2949 3905
 quinoline-3-carboxylic acid derivatives 3688
 rancinamycin I/rancinamycin II/rancinamycin III/rancinamycin IV 5759
 S-alkylthiuronium halides 6527
 serine dehydratase 5042
 L-serine dehydratase, antileukaemia agent 4124
 6-spirocycloalkylamino 5-nitropyrimidine derivatives 2947
 sulphacytine 528
 sulphafurazole 4725
 sulphafurazole + polymyxins 4725
 sulphamethoxazole-trimethoprim 2940 4727
 sulphamethoxazole-trimethoprim + polymyxins 4727
 sulphamoxole-trimethoprim 2940
 sulphaniilamide-metal complexes 10148
 taurolin 4667
 terizidone 5555
 tetracycline derivatives 622
 tetrahydro-cyclopropa(b)naphthalenes 4692
 tetrahydrocarbazole derivatives 10162

Subject index

- Proteus vulgaris (Contd).**
 thienopyridine-carboxylic acid derivatives
 503 2944
 4-thiouracil 6653
 tobramycin 3078
 ureidoacetamido-penicillin derivatives 8161
 enantio-[1-valine]malformin 4655
 verdamycin 1 562
 xylostasin 654
- Prothiocarb,**
Bremia lactucae, lettuce 4391 5426
Phytophthora fragariae, strawberry 2807
- Proticine,**
 typing, *Proteus* 5849
- Protoaminobacter ruber,**
 methylmalonyl-CoA mutase 4099
- Protocatechuic acid,**
 degradation, *Rhizobium* 6021
- Protodestruxin,**
Metarrhizium anisopliae 5896
- Protonyces macrosporus,**
 coriander, soil fertilizer 3574
- Protonyopsis patellii,**
 mung bean 4302
- Protonyopsis thurmalacharii,**
Sesbania grandiflora 4302
- Protopectinase,**
Cephalosporium sacchari, sugarcane 4347
Fusarium oxysporum, potassium, melon wilt
 7154 7922
- Protoplast,**
Aspergillus nidulans 6822
 barley, bromo mosaic virus 8624
Escherichia coli 3177
Mycobacterium smegmatis 5015
 plant cell, *Penicillium citreo-viride* enzyme
 6852
- Protosubtilin,**
 metalloendoproteinase, *Bacillus subtilis*,
 chromatography 3291
- Protoxin,**
Bacillus thuringiensis, insecticide 7079
- Providencia,**
 5-amino-5-deoxybutirosin 1409
 amikacin 3758 7427
 aminoglycoside antibiotics 1319
 antibiotics 2993 6557 6565
 disinfectant 6727
 gentamicin 3758
 gentamicin 1-N acyl derivatives 5643
 gentamicin/sisomicin/tobramycin 6563
 morganocin 5910
 MORLUC numeric system 1567
 nebramycin 2265
 netilmicin 1429 3814
 netilmicin/gentamicin/amikacin 4741
 netilmicin/gentamicin/tobramycin/sisomicin
 5751
 PathoTec system 7540
 penicillin derivatives 7405 7406 7408
 sisomicin 3758 6651
 sisomicin 1-N acyl derivatives 5643
 sulphamethoxazole-trimethoprim 2941
 terizidone 5555
 tobramycin 3758
 verdamycin 1-N acyl derivatives 5643
- Providencia alcalifaciens,**
 glutamic decarboxylase test 4929
- Providencia stuartii,**
 antiseptics 4654
 cephalothin-resistant,
 cefoxitin/cephalosporin BL-5786 10275
 disinfectants 4654
 netilmicin/gentamicin/tobramycin 10393
 netilmicin/gentamicin/tobramycin/amikacin
 2185 5750
 netilmicin/gentamicin/tobramycin/amikacin/sis
 omicin 2184
- Provitamin D,**
Penicillium digitatum 4032
- Prumycin,**
 645
- Prune,**
Cytospora leucostoma 1907
- Prune dwarf virus,**
 + *Prunus necrotic ringspot virus*, peach 7902
 + *Prunus necrotic ringspot viruses*, peach
 9339
 cherry, cucumber 299
 peach 5360 8667 8668
 stone fruit trees 9817
- Prunus,**
Agrobacterium tumefaciens, biological control
 401
Agrobacterium tumefaciens, biological
 control, *Agrobacterium radiobacter* 5438
Phlebia chrysocrea 418
Sclerotinia laxa 1900
 viruses, cucumber 259
- Prunus amygdalus,**
Agrobacterium tumefaciens, biological control
 7219
Fusicoccum amygdali, fusicoccin 3492
 leaf scorch bacteria 9822
Polystigma ochraceum 9823
Tranzschelia pruni-spinosae 9820
- Prunus armeniaca,**
Agrobacterium tumefaciens, biological control
 401
 apricot chlorotic ringspot, *Mycoplasma* 9826
Cytospora cincta 2720
Cytospora leucostoma 9818
Eutypa armeniaca 3493 9872
 fruit blemish, benomyl 4518
Fusarium solani 8661
Pseudomonas syringae 2720
Tranzschelia pruni-spinosae 9820
Xanthomonas pruni, fungicide 9958
- Prunus avium,**
Agrobacterium tumefaciens 2727
Agrobacterium tumefaciens, biological
 control, *Agrobacterium radiobacter* 5438
 isometric labile ringspot viruses 300
 microbial diseases 9817
Monilinia fructicola, benomyl tolerance 4627
Phytophthora cambivora 4362
Phytophthora drechsleri 4362
Phytophthora megasperma 4362
Pseudomonas mors-prunorum 1901 5351
Pseudomonas mors-prunorum lipopolysaccharide
 2519
 replant disease, *Thielaviopsis basicola* +
 Pratylenchus penetrans 5352
Sclerotinia laxa 4292
 tobacco ringspot virus 7901
- Prunus cerasifera,**
Agrobacterium tumefaciens 2727
- Prunus cerasifera x P. munsoniana,**
Agrobacterium tumefaciens, biological control
 401
- Prunus cerasus,**
Gnomonia erythrostoma 9828
 microbial diseases 9817
Monilia laxa, fungicide 9829
Prunus necrotic ringspot 6242
Pseudomonas mors-prunorum 7138
Pseudomonas syringae 7138
- Prunus communis,**
 bark extract, watermelon mosaic virus, marrow
 5434
- Prunus domestica,**
Agrobacterium tumefaciens, biological control
 7219
Cytospora leucostoma 1907 9844
 microbial diseases 9817
 plum pox virus 8671
Pseudomonas syringae 9844
 resistance, *Monilia* 4455
Sclerotinia laxa 1900
Tranzschelia pruni-spinosae 9820

Subject index

- Prunus dulcis,**
Agrobacterium tumefaciens, biological control 401
- Prunus mahaleb,**
Agrobacterium tumefaciens 2727
 microbial diseases 9817
- Prunus necrotic ringspot,**
 sour cherry 6242
- Prunus necrotic ringspot virus,**
 + prune dwarf virus, peach 7902 9839
 peach 8667
 rose 4413 7933
 sweet cherry 300
- Prunus pendula,**
Agrobacterium tumefaciens, biological control, *Agrobacterium radiobacter* 5438
- Prunus persica,**
Agrobacterium tumefaciens, biological control 401 7219
Agrobacterium tumefaciens, biological control, *Agrobacterium radiobacter* 2820
Armillariella mellea, plant protection 9827
Cytospora cincta, plant protection 9827
Cytospora leucostoma 9818
Cytospora leucostoma, benomyl 2023
Eutypa armeniaca, benomyl 7983
Eutypa armeniaca 7866
Eutypa armeniaca, plant protection 9827
Geotrichum candidum post-harvest decay 7190
 microbial diseases 9817
Monilia imbricata post-harvest decay 7190
Monilinia fructicola, benzimidazole 399
Mycoplasma, plant protection 9827
 peach rosette mosaic virus 251
 peach rosette + peach decline 8667
 phony disease, rickettsia-like organism, vacuum infiltration, phase-contrast microscopy 9840
Phytophthora, plant protection 9827
Podospaera leucotricha 8669
 post-harvest decay, fungicide 348
 prune dwarf virus 5360 8668
 prune dwarf virus + *Prunus necrotic ringspot virus* 7902 5839
Pseudomonas mors-prunorum 6247
Pseudomonas syringae 301 3497
Pseudomonas syringae, plant protection 9827
 resistance, *Taphrina deformans* 8774
Sclerotinia fructicola, benzimidazole fungicide tolerance 8798
Sclerotinia laxa 1900
Sharka virus, purification 2401
Sphaerotheca pannosa, fungicide 2795 2796
Stereum purpureum, plant protection 9827
Taphrina deformans 302
Tranzschelia pruni-spinosae 9820
Verticillium dahliae, plant protection 9827
 X-disease, mycoplasma-like organism, oxytetracycline 6375
Xanthomonas pruni, phage 1906
Xanthomonas pruni 9841
- Prunus salicina,**
Tranzschelia pruni-spinosae 9820
- Prunus serrulata,**
 tobacco ringspot virus 7901
- Pseudocercospora herpotrichoides,**
 wheat 291 4352 4353
- Pseudocodamine,**
 laudanone dealkylation, *Cunninghamella blakesleeana* 77
- Pseudodisaccharide,**
 derivatives, antibacterial agent 2115
- Pseudobrophila deerata,**
 Scots pine leaf litter, urea/urine 2035
- Pseudomonadaceae,**
 L-aspartic acid 4037
 blood culture 768
- Pseudomonadaceae (Contd),**
 carbonamidoquinoxaline-di-N-oxide derivatives 1226
 penicillin derivatives 1336
- Pseudomonas,**
 + *Rhodopseudomonas*, dormant bacteria, waste treatment 3121
 activated sludge, carbonisation effluent treatment 685
 activated sludge, non-ionic surfactant degradation 1709
 alcohol dehydrogenase 9354
 alkylbenzene sulphonate degradation 899
 alkylsulphohydrolase, alkylsulphate detergent degradation 6979
 amikacin 2189
 amikacin/gentamicin/kanamycin/sisomicin/tobramycin 7384
 omega-amino acid-pyruvate aminotransferase 3251
 aminoacylpenicillins 2222
 aminoglycoside antibiotics 3755
 ampicillin derivatives 599
 animal feed/food, methanol 820
 antibacterial agent, amino acids, plant disease/plant protection 3457
 antibiotic B371, antibacterial agent/antifungal agent 5701
 antibiotics 4721
 antibiotics resistance, R factor 5528
 antiseptic 3137
 arginine 5895
 assay, *Limulus* lysate test 10551
 bacteria 7540
 benzoate-4-hydroxylase 4061
 biological control, *Erwinia amylovora*, pear 5439
 biomass/protein, formaldehyde 5900
 biomass/protein, formate 5100
 biomass/protein, methanol 5900
 biomass/protein, methylamine 5900
 gamma-butyrobetaine hydroxylase 9366
 butyrylcholinesterase inhibitor, mycelianamide, *Penicillium* 1427
 carbenicillin resistance, R factor 5528
 carbenicillin + tobramycin 7381
 carbonamidoquinoxaline-di-N-oxide derivatives 1226
 carboxypeptidase G, substrate elution chromatography 4070
 cefuroxime/cephalothin 10277
 cephalosporin derivatives 570 1340 1341 2209 2215
 cephalosporins 2194
 cetrinide medium 3191
 Cheddar cheese 6062
 chicken leg muscle spoilage 8506
 chlorhexidine 10152
 cloxacillin + amoxycillin 8149
 columnar denitrification, closed-system salmon aquaculture 4873
 contact lens sterilising solution 1283
 cosmetics 10505
 cream dessert 3384
 creatinine amidohydrolase 9378
 cured, pickles + microorganisms 3399
 cured pork + pickles 3399
 cyclohexylamine oxidase 9379
 cytochrome oxidase, structure 8359
 DOT analogues degradation 902
 1,2-dehydrogenation, D-homosteroid 5978
 dekamycin 8180
 dental clinic water 10479
 diazepam 10149
 3,5-dichlorophenol, activated sludge 7481
 dicloxacillin + ampicillin 8149
 diphenylmethane 6666
 dry sausage 3400

Subject index

Pseudomonas (Contd),

egg white 7009
enzymatically-active protein cell membrane complex 5912
esculin hydrolysis 1562
estuarine water/sediment, petroleum degradation 10109
flagella, dark-field microscopy 3951
flocculation, bentonite 10535
flucloxacillin + amoxycillin 8149
forest soil 7255
fuel tank, organic acids 4617
fungal oospore parasite, soil 8881
gelatine/casein hydrolysis, food 8470
gentamicin 2189
gentamicin resistance 8958
gentamicin resistance, tobramycin 6484
gentamicin/tobramycin/sisomicin/netilmicin 2186
gentamicins 9090
glucose dehydrogenase,
D-gluconic-delta-lactam 1435
L-glutaminase-asparaginase 9403
grass 4316
green rotten eggs 163
hospital intensive care unit, hygiene 9233
hydrazino-pyridine derivatives 2139
hydrogen peroxide, culture medium sterilisation 8104
Indian mackerel, gamma-irradiation 4245
industrial waste toxicity assay 3107
iron-sulphur protein 7
isolation medium 9280
Johnsongrass 4316
beta-lactamase, *Streptomyces* beta-lactamase inhibitor 3347
lecithinase 5075
lignin degradation 8459
maize 4316
manganese concretion 8932
marine, antibiotics 6544
marine, 6-bromoindole-3-carboxaldehyde 6544
marine, 2-n-heptyl-4-quinolinol 6544
marine, p-hydroxybenzaldehyde 6544
marine, indole-3-carboxaldehyde 6544
marine, 2-n-pentyl-4-quinolinol 6544
marine, petroleum degradation 10111
meat 4208
mecillinam + beta-lactam antibiotic 1366
mercury resistance, R factor 5528
mesquite degradation 8457
methane chemostat culture 10097
methylamine dehydrogenase 1662
3-methylbenzoate + methylcatechol,
furan-2-acetic acid derivatives 8943
milk 141 916 8481
milk, proteolysis/lipolysis 142
modified sutter's arginine dihydrolase medium 9282
NAD-dependent alkane dehydrogenase, alkane 6857
NAD phosphate-dependent alkane hydroxylase, alkane 6857
naphthalene + heptamethylnonane 6466
Neisseria gonorrhoeae 3990
netilmicin 10392
netilmicin +
carbenicillin/cefazolin/chloramphenicol/clin
damycin 1428
Netilmicin/gentamicin/tobramycin/sisomicin 5751
oil, bactericide 7288
oil degradation, mercury 4623
organophosphate insecticide hydrolysis 113
ormethoprim 10149
Pacific shrimp 7020
pearl millet 4316
penicillanic acid derivatives 595 596
penicillin derivatives 1354 1358 8159 9085
penicillin G derivatives 1363

Pseudomonas (Contd),

penicillins 3752
phagolysate 5850
phospholipase C, milk 5208
pigment 8422
poultry carcass 2578 2579
prepackaged beef, carbon monoxide, shelf-life 2613
prepacked herring 4246
protease, milk, ultra-high temperature sterilisation 216
protein 9342
protein, mesquite wood, cattle feed 4227
pseudodisaccharide derivatives 2115
purine degradation 119
quaternary ammonium compound 2961
quaternary ammonium compound degradation 7711
refrigerated chicken, volatile odour compounds 929
resistance, antibiotic/mercury/silver nitrate 2097
rhizosphere, molybdenum 6415
rosamicin monoesters 5760
sausage, heat treatment 220
sea water, metal-binding surface-active polymers 460
selective medium 9261
selenium transformation 4145
sewage, polyethylene glycols degradation 6022
sisomicin 2189 6652
soil, aldrin degradation, exo-dieldrin 10074
soil, amitrole degradation 7281
soil, benzoic acid degradation 6019
soil, citronellol degradation 5192
soil, dalapon, dehalogenase 4600
soil, denitrification 443 7263
soil, fumigation 458
soil, geraniol degradation 5192
soil, limonene degradation 5192
soil, linalool degradation 5192
soil, nitrification, benomyl 8888
soil, nitrophenol degradation, parathion 6448
soil, pentachlorophenol degradation 10082
soil, petroleum waste 6460
soil, phthalic acid degradation 2057
sorbistim 9153
Sorghum bicolor 4316
sterile beef tissue 2580
sublimation dehydration preservation 2981
substituted sulphonylacetamido cephalosporins 2204 2205 2206
sugar-lipids, paraffin, activated sludge 3665
sulphadimethoxine 10149
sulphadimethoxine-trimethoprim/ormethoprim/di
averidine 10149
sulphamethoxazole-trimethoprim 2941
sulphaquinoxaline 10149
sulphaquinoxaline-trimethoprim/ormethoprim/di
averidine 10149
Swiss stone pine rhizosphere, amino acids 7229
test 1561
tobramycin 2189 4826
trimethoprim 10149
L-tryptophan 2425
ultra-high temperature cream 3384
ultra-high temperature milk 3384
vacuum-packaged beef 1791 2614 6127
vacuum-packaged lamb 7804
vacuum-packaged trout, gamma-irradiation 5258
waste treatment 5786
waste treatment, protein/enzymes/vitamins 2313
wastewater denitrification 1480
wastewater treatment 699

Subject index

Pseudomonas (Contd),

- wheat 4316
- wild rice fermentation 2549
- Pseudomonas 3ab,**
 - L-serine, methanol 8322
- Pseudomonas 7A,**
 - glutaminase-asparaginase 876
- Pseudomonas acidovorans,**
 - API test/Oxi Ferm tube 10543
 - L-glutaminase-L-asparaginase, antitumour enzyme 5121
 - methioninyl adenylate 4666
 - tobramycin 6656
- Pseudomonas aeruginosa,**
 - 7253
 - 3-chloro-2-oxazolidinones 7322
 - 3-chloro-tetrahydro-1,3-oxazines/oxazolidines 1267
 - 3-deoxybutirosin A 2257
 - 3-deoxydehydrostreptomycin 6594
 - 5-amino-5-deoxybutirosin 1409
 - 5-hydroxy-1-[[[(5-nitro-2-furyl)methylene]amino]-2,4-imidazolidinedione 7321
 - 6-(alpha-7-acyl-ureidoacetamido)-penicillanic acids 7410
 - N-acetylcysteine 10238
 - Achromobacter lunatus immobilised bacteriolytic enzyme 6851
 - actinomycin antitibiotic 70591 1389
 - acyl derivatives 497
 - agar droplet method 3165
 - alcoholic chlorhexidine 8252
 - alcoholic chloroxylenol 8252
 - alginate 5983
 - allantoinase inhibitor, urease 4064
 - alpha-halogenated fatty acid 1255
 - alpha-sulchocephalosporins 5659
 - amikacin 564 1321 3758 7427 10260
 - amikacin, antibiotic sensitivity testing 8116
 - amikacin/gentamicin/kanamycin/sisomicin/tobramycin 7354
 - aminoglycoside antibiotic 1206
 - aminoglycoside antibiotics 1319
 - aminoglycoside antibiotics, salt antagonism 4742
 - aminotri-deoxybutirosin A 2254
 - ampicillin, sensitivity test broth/urine 3009
 - analgesic agents 6495
 - antibacterial agent 5752 6550
 - antibacterial agent/antibiotic 1214 1304
 - antibiotic Z33-25 1387 1388
 - antibiotic A16884 6619
 - antibiotic AV290 alkylated derivatives 1394
 - antibiotic P-43 5705
 - antibiotic EM-49 tetramidino derivatives 5707
 - antibiotic G-52 1397 1398
 - antibiotic G-418 1400
 - antibiotic K-52A 3059
 - antibiotic No. K-73 3803
 - antibiotic NRC-501 3060
 - antibiotic P-3355 2244
 - antibiotic resistance 4634
 - antibiotic Sch 2656/inetilmicin/gentamicin/tobramycin 563
 - antibiotic sensitivity testing 4720 9035
 - antibiotic sensitivity testing, culture medium 6549
 - antibiotics 2993 2995 3749 6550 7368 10241 10245
 - antibiotics resistance 4632 5526 6550 10119
 - antibiotics resistance, pyocine 2926
 - API test/Oxi Ferm tube 10543
 - assay, Limulus lysate test 10551

Pseudomonas aeruginosa(Contd),

- az. cillin 7153 10293
- azurin 5909
- bactericide, metal working fluid 7345
- bactericide, preservatives 4653
- bacteriocin 6845
- bacteriocin, Neisseria gonorrhoeae 647
- bacteriocin typing 7546
- bacteriostat/bactericide 1256
- benzalkonium chloride 6539
- benzazepine derivatives 3686
- benzene derivatives 2131
- benzisothiazolin-3-one derivatives 534
- benzisothiazolinone + quaternary ammonium compound 4687
- benzo-1,2,4-triazines 1225
- benzotriazine-1,4-dioxide derivatives 2091 2118
- beta-aminoketones 2100
- beta-lactam antibiotics resistance, beta-lactamase 8952
- betaine aldehyde dehydrogenase 3258
- bicyclic polyoxymethylene-oxazolidines 471
- BL-P1654 6556
- BL-P1654 + gentamicin 6556
- blood culture 2384
- blood culture, bacteraemia 1555
- epsilon-caprolactam + alkanediamine derivatives 2149
- epsilon-caprolactam + N-alkyl-croylene-diamine reaction products 8102
- epsilon-caprolactam + N-alkylalkylene diamine reaction product 3126
- carbenicillin 4726 6556
- carbenicillin + amikacin 7382
- carbenicillin + aminoglycoside antibiotic 1321
- carbenicillin, antibiotic sensitivity testing 8116
- carbenicillin + doxycycline 4726
- carbenicillin + gentamicin 4726 6556
- carbenicillin resistance, beta-lactamase 7634
- carbenicillin resistance, plasmid 10123
- carbenicillin resistance, R factor 7306
- carbenicillin, sensitivity test broth/urine 3009
- carbenicillin + sisomicin 7382
- carbenicillin + tobramycin 7382
- catechol 1,2-dioxygenase, 3-methylcatechol 5924
- cefazolin, sensitivity test broth/urine 3009
- cephalosporin derivatives 571 573 1312 1313 1316 1328 1338 1339 1342 1343 2198 2212 3006 3017 3018 3019 8140 8142 8143 9068 9070
- cephalosporinase 6880
- cephalosporinase, carbenicillin 8156
- cephalosporins 2174 2195 2201 9060
- cephalothin/cefamandole/cefoxitin 1325
- cephalothin, sensitivity test broth/urine 3009
- cephem-4-carboxylic acid derivative 4751
- cephem-4-carboxylic acid derivatives 4752
- cetrimide medium 3191
- chelocardin anilino derivatives 3064 5726
- chloramphenicol 3748
- chloramphenicol + hexamethylenetetramine 2226
- chlorbutol 6539
- chlorhexidine gluconate 6539
- chlorpromazine/levopromazine/promethazine 8980
- choline dehydrogenase 5938
- colistin 4726 4727
- colistin + carbenicillin 4726
- colistin + doxycycline 4726
- colistin + gentamicin 4726
- contact lens sterilising solution 1282

Subject index

Pseudomonas aeruginosa (Contd),

copper, intensive care unit 2347
cottage cheese 3394
culture medium, dissolved oxygen 3190
cyanide 2536
cyclic dione derivatives 1266
cycloalkyl-4-oxoquinoline-3-carboxylic acid derivatives 2141
1,2-dehydrogenation, D-homosteroid 5978
deoxyribonuclease 1648
2-deoxystreptamine-aminoglycoside derivatives 6560
D-3,6-diaminohexanoic acid
2-(carboxymethyl)-2-methylhydrazine 2151
dibenzothione degradation 4173
dibromoisocyanuric acid, hand disinfection 1518
dicarboxylic acid-binding protein 2437
dihalo-sulphonate derivatives 7979
dihaloaryloxy di-/trihalomethyl ketones 2943
dihydrostreptomycin, salt antagonism 4742
dimethyl phthalate degradation 6981
bis(diphenylaminomethane) derivatives 1265
disinfectant 6726 6727
disinfectant assay 10485
disinfectant resistance 1192
disinfectant testing 726
dithiocarbamate derivatives 6526
doxycycline 4726
drinking water 10478
econazole 2974
enantio-[1-valine]-malformin 3692
enrichment/selective medium, Dettol 4961
enzyme, aminoglycoside antibiotic dehydroxylation 6561
exotoxin 4282 6155
exotoxin A 7090 7091
exotoxin A, peptide 7857
exotoxin, mammalian cells 5287 5288
eye drop, preservative 5606
flower vase water, potted plants, hospital hygiene 10489
formaldehyde 5523
fortimicin A 6181
frozen erythrocytes 1293
frozen fruit/vegetable 3406
garamine derivative 8182
gentamicin 564 1321 3758 4726 5684 10257
gentamicin 1-N acyl derivatives 5643
gentamicin aminocyclitol analogues 6599
gentamicin, antibiotic sensitivity testing 8116
gentamicin + azlocillin 7383
gentamicin C1a derivatives 5685
gentamicin C2 derivatives 617
gentamicin + carbenicillin 7383
gentamicin + doxycycline 4726
gentamicin + mezlocillin 7383
gentamicin + prednisolone 1371
gentamicin resistance 5537
gentamicin resistance, R factor 7308
gentamicin resistance, tobramycin 6484
gentamicin, salt antagonism 4742
gentamicin/sisomicin/tobramycin 6562 6563 6564
gentamicin/tobramycin 4740
gentamicin/tobramycin/sisomicin/netilmicin 2186
germicide 6742
glucose-binding protein 2437
glutaminase A 5950
glutaminase B 5950
heavy metals + antibiotics resistance 7294
heavy metals resistance 7293
hexachlorophene + povidone-iodine + ethanol, bronchofiberscope disinfection 5807
hospital distilled water 3129
hospital food 126
hospital sink 2344

Pseudomonas aeruginosa (Contd),

hospital water bed, hypochlorite disinfection 10493
hydrocarbon degradation 1187
hydrocarbon degradation, sea water 2912
immunofluorescence 1575
industrial product pollution 4348
iodopolymers 1258 1259
kanamycin 564
kanamycin B derivatives 6590
kanamycin derivatives 3785
kanamycin 7425
kasugamycin guanine derivatives 3808
beta-lactam antitoxics 4771
beta-lactamase 6900
beta-lactamase, isoelectric focusing 8768
laterosporamine 2261
lipase, triglyceride assay 3290
lipopolysaccharide 6934
lipopolysaccharide, erythrocytic diagnostic agent 3331
lividomycin A derivatives 6641
lividomycin B derivatives 1422 6641
macrolide antibiotics + protein SP127 8334 8735
macromycin 9141
marsh, antibiotics 3056
meat, chloramphenicol/neomycin resistance 1748
methioninyl adenylate 4666
methoxychlor degradation 8458
mezlocillin 5677
miconazole 2974
microbial degradation 8458
monocyclic polyoxymethyleneazolidine 2090
nebramycin 2265
neomycin analogues 642
nelimicin 1321
netilmicin 1429 3814 9145 10392
netilmicin + carbenicillin/cefazolin/chloramphenicol/clindamycin 1428
netilmicin/gentamicin/amikacin 4741
netilmicin/gentamicin/tobramycin 10393
netilmicin/gentamicin/tobramycin/amikacin 2185 5750
netilmicin/gentamicin/tobramycin/amikacin/sisomicin 2184
netilmicin/sisomicin 3815
nicotinamide nucleotide transhydrogenase 855
nitrofurantoin derivatives 1220
nitroimidazole derivatives 1270
nitroimidazolyl-acetylpropenoic acid derivatives 2136
nitrothiazole derivatives 1269
nocardicin A 1434
nocardicin B 7440
octapeptide antibiotics 7441
oil degradation, mercury 4623
onion post-harvest decay 350
organic soil neutralization test, disinfectant 5801
outer membrane, cytoplasmic membrane 6821
oxazolidine derivatives 5553
packaged milk 7049
paralol 3721
parathion degradation 114
paromomycin derivatives 3784
penicillanic acid derivatives 606 3040 6591
penicillin amidase, 6-aminopenicillanic acid 598
penicillin amidase, + penicillin, 6-amino-penicillanic acid 4763
penicillin derivatives 1312 1313 1316 1350 1352 3006 6589 6590 7405 7406 7408
penicillin, sensitivity test broth/urine 3009
penicillins 2174
pentachlorophenol, water microorganisms 9220
peptidoglycan 2426
phage 95-induced lytic enzyme 2481
phage-typing 4962

Subject index

Pseudomonas aeruginosa(Contd),

phagocytosis, rabbit polymorphonuclear leukocytes, antibiotics 2998
 pharmaceutical cream, peracetic acid sterilisation 2979
 phenoxycetamido-nitrothiazole derivatives 2973
 phenyl-indole derivatives 6530
 phenylethanol, benzalkonium chloride, electron microscopy 6496
 pigeon farm 3925
 piperazinoethyl-dihydroindolo-benzazepine derivatives 2948
 piperazinyl-oxopyrido-pyrimidine derivatives 2946
 pirbenicillin 6556
 pirbenicillin + gentamicin 6556
 pirbenicillin/ticarcillin/carbenicillin 5674
 plant extracts 10141
 plastics degradation 5195
 polymyxin B 3748 4726 4727 7415
 polymyxin B + carbenicillin 4726
 polymyxin B + doxycycline 4726
 polymyxin B + gentamicin 4726
 polymyxins 4727
 polysorbate 80, benzalkonium chloride, electron microscopy 6496
 povidone iodine 2935
 preservatives 2157
 protease, plant disease 6916
 protein-like activator, alkane oxidation 10099
 pyocin, antibiotics 8191
 pyocin cetrimide, medium 4045
 pyocin typing 8281
 pyrano-indole derivatives 7349
 pyridazine-2-oxide derivatives 3932
 pyridine nucleotide transhydrogenase 4106.
 pyrrole-2-carboxamide derivatives 3139
 pyrrolidine derivatives 9006
 quaternary ammonium compound 2949 3890 3905
 quaternary ammonium compounds 2319
 quinoline-3-carboxylic acid derivatives 3688
 quinolizine-2-carboxylic acid derivatives 4694
 quinolizine derivatives 8100
 R factor transfer, pipemidic acid 3670
 rancinamycin I/rancinamycin II/rancinamycin III/rancinamycin IV 5759
 resistance, antibiotic/mercury/silver nitrate 2097
 resistance, antibiotics 3749
 resistance, formaldehyde 5523
 resistance, penicillins, beta-lactamase 2102
 resistance, quaternary ammonium compound, electron microscopy 2096
 respirator aerosol sampler 10490
 ribofuranosyl-1,2,3-triazole derivatives 3727
 rifampicin 9100
 rifampicin resistance 9100
 S-alkylthiuronium halides 6527
 s-triazinyl aryl/alkyl sulphones 1215
 selective medium 3162 3192
 silver nitrate 2937
 sisomicin 1321 3738 4825 6651 6652 10406
 sisomicin 1-N acyl derivatives 5643
 sisomicin + azlocillin 7383
 sisomicin + carbenicillin 7383
 sisomicin/gentamicin 3757 7387
 sisomicin/gentamicin/tobramycin 7386
 sisomicin + mezlocillin 7383
 slimicide, industrial water system 3124
 soft contact lens soaking solution 4912
 6-spirocycloalkylamino 5-nitropyrimidine derivatives 2947
 Streptomyces antibiotics 9025
 streptomycin 3748 3782 10257
 sugars/sugar alcohols 5593
 sulphadiazine 10151
 sulphadimidine 10151

Pseudomonas aeruginosa(Contd),

sulphamethoxazole 10151
 sulphamethoxazole-trimethoprim 4727 10151
 sulphamethoxazole-trimethoprim + polymyxins 4727
 sulphanilamide-metal complexes 10148
 sulphonamide derivatives 6528
 swimming pool 3143
 taurolin 4667
 tellurite/tellurate resistance, plasmid 3668
 temperature-stressed, food, selective medium 7722
 terizidone 650 5555
 alpha-terpineol degradation 2556
 test 1559
 tetracycline 3748
 tetracycline derivatives 622
 tetrahydrocarbazole derivatives 10162
 thienamycin 651
 thiocyanate xanthate derivatives 2972
 thiomersal 6539
 ticarcillin 8157
 ticarcillin, sensitivity test broth/urine 3009
 ticarcillin + tobramycin 9652
 tobramycin 528 1321 3078 3758 4827 6654 6656
 6658 6660 6661 7425 8195
 tobramycin, antibiotic sensitivity testing 8116
 tobramycin/carbenicillin/gentamicin 6657
 tobramycin/gentamicin/kanamycin/colistin/carbenicillin/ticarcillin 6566
 tobramycin resistance 1211
 toxin 9736
 triazolo-pyridazine derivatives 2117
 ticarcillin/antibiotic BL-P1654/carbenicillin 605
 trifluoromethyl phenyl-3-(3',5'-dicyanophenyl)urea 2140
 trimethoprim 10151
 ureidoacetamido-penicillin derivatives 8161
 beta-ursolic acid 6532
 enantio-L1-valine/malformin 4655
 verdamycin 1 562
 verdamycin 1-N acyl derivatives 5643
 veterinary topical products 2970
 water, dodecylbenzene sodium sulphonate 6723
 water, food industry 5795
 water/sewage, membrane filtration 6719
 xylene oxidation 5519
 xylostasin 654
Pseudomonas aeruginosa vaccine, 4843 5770
 lipopolysaccharide 10427
Pseudomonas alcaligenes, tobramycin 6656
Pseudomonas alitcola, insecticide, *Cydia pomonella*/Porthetria dispar 891
 pigment 8422
Pseudomonas alkamolytica, co-enzyme A 2506
Pseudomonas AM-1, biomass, methanol 9321
 phosphoglycerate mutase 1670
 vitamin B12, methanol 9321 9475
Pseudomonas aminoverans, N-methylglutamate dehydrogenase 6904
Pseudomonas aptata, nasturtium 321
Pseudomonas atlantica, beta-neoagarotetraose hydrolase 7640
 sea water, metal-binding surface-active polymers 460
Pseudomonas aureofaciens, cyanide 2536
 cytosine deaminase 832
 2-hydroxyphenazine-1-carboxylic acid 4036
Pseudomonas BAL-31, acyl phosphatidylglycerol 3346

subject index

- Aspergillus boreopolis*,
asparagine deamidase 10528
glutamine deamidase 10528
Aspergillus C,
culture 782
Aspergillus C12B,
arylsulphatase 9363
Aspergillus cepacia,
API test/Oxi Ferm tube 10543
nebramycin 2265
Resiguard 2243
soft contact lens soaking solution 4912
Aspergillus cerasi,
insecticide, *Cydia pomonella*/*Porthetria*
dispar 891
Aspergillus chlorophis,
cyanide 2536
Aspergillus convexa,
L-mandelate-4-hydroxylase 1659
mandelic acid degradation 903
Aspergillus coronafaciens,
antibacterial agent, amino acids, plant
disease/plant protection 3457
plant disease, antibiotics 7222
Aspergillus denitrificans,
alkane, gelatin proteolysis 10100
Aspergillus desmoltitum,
soil, p-aminobenzoic acid 431
Aspergillus desmolytica,
culture medium, dissolved oxygen 3190
Aspergillus diminuta,
API test/Oxi Ferm tube 10543
tobramycin resistance 6656
Aspergillus flava,
RNA, heat treatment 5116
Aspergillus fluorescens,
amikacin 7427
animal waste treatment, methane + animal feed
6714
antibacterial agent, amino acids 3457
antibiotic TA 6621
API test/Oxi Ferm tube 10543
beef 6077
epsilon-caprolactam + alkanediamines 2318
Cheddar cheese 6062
cholesterol esterase 2456 5935
cyanide 2536
cysteine desulphhydrase, L-cysteine 6829
2,4-diacetylphloroglucinol, antibacterial
agent 7442
Emmental cheese 5228
Emmentaler cheese 2576
enzymes, food 134
farm bulk milk tanks 6039
fish hatchery water, ultraviolet irradiation
1503
food, low temperature spoilage 6025
gentisic acid, naphthalene oxidation 2916
glucono-dehydrogenase, gluconic acid assay
9396
beta-glucosidase 5948
heat-stressed, medium, trypticase soy agar
9283
hospital food 126
insecticide, *Cydia pomonella*/*Porthetria*
dispar 891
iron oxidation 4613
kasugamycin guanidino derivatives 3808
kojic acid analogues 1223
lipase 1658 5076
lipase, Cheddar cheese 5225
lipase, triglyceride assay 3290
meat, chloramphenicol/neomycin resistance
1748
methioninyl-adenylate 4666
milk 8481
mineral water 5796
negamycin analogues 642
pantothenate amidohydrolase 3299 3300
Pseudomonas fluorescens(Contd),
perennial ryegrass pyloplane, *Drechslera*
dictyoides 7889
phloracetophenone 7442
phospholipase C, + lipase, milk 6998
plastics degradation 5195
poultry carcass 2578
pseudomonic acid A 7445
pseudomonic acid A, structure 7444
pseudomonic acid B, structure 7446
pseudomonic acid/pseudomonic acid 1 8189
soil, biological control, *Gaeumannomyces*
oraminis tritici, wheat 369
soil, denitrification 2072 7263
thiocyano xanthate derivatives 2972
4-thiouracil 6653
2,4,6-triacetylphloroglucinol, antibacterial
agent 7442
trifluoromethyl
phenyl-3-(3',5'-dicyanophenyl)urea 2140
triorganotin compounds/triorganolead
compounds 2129
Pseudomonas fragi,
dairy product 921
food, low temperature spoilage 6025
lipase, Cheddar cheese 157 5225
milk 139
packaged milk 7049
poultry carcass 2578
products, milk, gas-liquid chromatography
919
Pseudomonas glycinea,
antibacterial agent, amino acids, plant
disease/plant protection 3457
soybean 9769
Pseudomonas graveolens,
dairy product 921
Pseudomonas helianthi,
antibacterial agent, amino acids, plant
disease/plant protection 3457
Pseudomonas herbicola,
culture medium, dissolved oxygen 3190
Pseudomonas inaudita,
protein, methanol 5036
Pseudomonas K-62,
carbon-mercury linkage splitting catalyzing
enzyme 1643
Pseudomonas lachrymans,
cucumber 1926 9858 9859
cucumber, resistance 3556
Cucumis sativus 4291
insecticide, *Cydia pomonella*/*Porthetria*
dispar 891
plant disease, antibiotics 7222
plant disease, resistance 4447
tobacco, *Pseudomonas phaseolicola* toxin 7179
Pseudomonas magnesiorubra,
magnesidin 3810
Pseudomonas maltophilia,
API test/Oxi Ferm tube 10543
deoxyribonuclease-indole medium 7541
alpha-glucosidase 5949
beta-glucosidase 5949
nebramycin 2265
Pseudomonas mangiferae,
mango post-harvest decay 9917
Pseudomonas marginata,
gladiolus 2744
iris 2744
Pseudomonas methanica,
methanol 3235
protein 9342
protein, animal feed 1766
protein, methanol 821
protein, methanol, food 9343
Pseudomonas methanolica,
biomass/protein, formaldehyde 5900
biomass/protein, formate 5900
biomass/protein, methanol 5900
biomass/protein, methylamine 5900

Subject index

- Pseudomonas methylotropha*,**
 amino acid 9344
 biomass/protein, formaldehyde 5900
 biomass/protein, formate 5900
 biomass/protein, methanol 5900
 biomass/protein, methylamine 5900
 protein, chicken feed, methanol 9616
 protein, food, animal feed 9344
 protein, methanol, chicken feed 2598
- Pseudomonas mori*,**
 antibacterial agent, amino acids, plant
 disease/plant protection 3457
- Pseudomonas mors-prunorum*,**
 bean, hypersensitive response 8602
 insecticide, *Cydia pomonella*/*Porthetria*
dispar 891
 lipopolysaccharide, cherry/bean/tobacco 2519
 peach 6247
 pyridine derivatives 2823
 sour cherry 7138
 stone fruit trees, fungicide 9958
 sweet cherry 1901 5351
- Pseudomonas non-liquefaciens*,**
 culture medium, dissolved oxygen 3190
- Pseudomonas O-3*,**
 polyvinyl alcohol-degrading enzyme 859
- Pseudomonas oleovorans*,**
 catechol 1,2-dioxygenase, 3-methylcatechol
 5924
 hydrocarbon degradation 1189
 1,7-octadiene epoxidation,
 7,8-epoxy-1-octene, 1,2,7,8-diepoxyoctane
 9482
 rubredoxin, immobilisation 8395
- Pseudomonas ovalis*,**
 L-asparaginase 5951
 deacylating enzyme, 7-amino-cephems 2202
 gluconic acid 5891
 gluconic acid, rotary fermentor 4034
 gluconolactonase, gluconic acid 9327
 L-glutaminase 5951
 iron-sulphur protein 1630
 L-methionine lyase 5961
- Pseudomonas oxalaticus*,**
 protein 9342
- Pseudomonas perolens*,**
 fish 921
 food, low temperature spoilage 6025
 products, milk, gas-liquid chromatography
 919
- Pseudomonas phaseolicola*,**
 antibacterial agent, amino acids, plant
 disease/plant protection 3457
 bean 1842 1843 4290
 bean, antibacterial agent 6376
 bean, antibacterial seed treatment 6379
 bean, hypersensitive response 8602
 bean, resistance 1978
 bean, streptomycin seed treatment 406
 phaseolotoxin 7858 8586
 pyridine derivatives 2823
 [2-serine-3]-phaseolotoxin 8586
 tobacco, *Pseudomonas phaseolicola* toxin 7179
 toxin, Swiss chard 3449
 toxin, tobacco, *Pseudomonas*
lachrymans/*Pseudomonas*
phaseolicola/*Pseudomonas pisi* 7179
- Pseudomonas pisi*,**
 tobacco, *Pseudomonas phaseolicola* toxin 7179
- Pseudomonas prunorum*,**
 cherry 9817
 plum 9817
- Pseudomonas pseudoalcaligenes*,**
 API test/Oxi Ferm tube 10543
- Pseudomonas pseudomallei*,**
 antibiotics 8117
 indirect haemagglutination test 10585
 nebramycin 2265
- Pseudomonas putida*,**
 antibacterial agent, amino acids 3457
 API test/Oxi Ferm tube 10543
 caffeine degradation 704
 cephalosporin derivatives 1334
 creatinase 830
 creatine aminohydrolase 4080
 creatine degradation, enzymes 2461
 cytochrome P450cam, Raman spectrum 7603
 DDT derivatives degradation 4172
 hospital food 126
 hydrocarbon degradation 1187 1188
 L-idonic acid, 2-keto-L-gulonic acid 3229
 2-keto-3-deoxy-6-phosphogluconic aldolase,
 azomethine-forming lysine residue, structure
 3287
 2-keto-L-gulonic acid, L-sorbose 3229
 meat, chloramphenicol/neomycin resistance
 1748
 (-)-menthone degradation 7708
 methioninase 854
 methioninyl adenylate 4666
 modified sutter's arginine dihydrolase medium
 9282
 phenol degradation 3368
 1-phosphofructokinase 7645
 plasmid DNA 5117
 poultry carcass 2578
 RNA, heat treatment 5116
 soil, dalapon, dehalogenase 4600
 soil, rice yield decline 7825
 L-sorbose, L-sorbose 3229
 cis-toluene dihydrodiol dehydrogenase 7666
 urocanase, polyacrylamide gel 4113
- Pseudomonas putrefaciens*,**
 API test/Oxi Ferm tube 10543
 beef 7014
 deoxyribonuclease-indole medium 7541
 food, low temperature spoilage 6025
 pork, microwave/oven cooking 6080
 refrigerated chicken, volatile odour
 compounds 929
- Pseudomonas pyocyanea*,**
 cephalosporin derivatives 5664
 iodine disinfectant 8253
- Pseudomonas rathonis*,**
 activated sludge, non-ionic surfactant
 degradation 1709
- Pseudomonas rosea*,**
 amino acid 9344
 biomass/protein, formaldehyde 5900
 biomass/protein, formate 5900
 biomass/protein, methanol 5900
 biomass/protein, methylamine 5900
 protein, food, animal feed 9344
- Pseudomonas roseus fluorescens*,**
 proferrerosamine A 5133 5134
- Pseudomonas rubescens*,**
 food, low temperature spoilage 6025
- Pseudomonas rubrilineans*,**
 teosinte 1886
- Pseudomonas saccharophila*,**
 lipase, triglyceride assay 3290
- Pseudomonas schuytkilliensis*,**
 lipase, triglyceride assay 3290
- Pseudomonas solanacearum*,**
Achromobacter lunatus immobilised
 bacteriolytic enzyme 6851
 antibiotic A-26771 1390
 ethylene 2092
 nebramycin 2265
Parthenium hysterophorus extract 2932
 plant disease 2656 6165
 plant rhizosphere 2856
 poppy 3520
 rhizopin 1438
 tobacco 9944
 tobacco, resistance 9944
 tomato 8740
 tomato, ethylene 3538

Subject index

- tomato, plant protection 5392
- tomato, resistance 9948
- tomato, resistance, soil temperature 9947
- Pseudomonas sorbicini**,
sorbistin 7454
- sorbistin, antibacterial agent 7453
- sorbistin, structure 7455
- Pseudomonas striata**,
soil, herbicide degradation 5503
- Pseudomonas stutzeri**,
amylase testing medium, Mueller-Hinton agar 4000
- API test/Oxi Ferm tube 10543
- soil, denitrification 8891
- tobramycin 6656
- Pseudomonas syringae**,
antibacterial agent, amino acids, plant disease/plant protection 3457
- apricot 2720
- apricot, plant protection 9827
- cherry 9817
- coffee 5371
- corn 9783
- dinitrothiophene derivatives 7987
- grapevine 1930
- insecticide, *Cydia pomonella*/*Porthetria dispar* 891
- Norway spruce 8853
- peach 301 3497
- pear, antibacterial agent 8828
- plum 9817 9844
- pyridine derivatives 2823
- sour cherry 7138
- soybean 6196
- stone fruit trees, fungicides 9958
- sunflower 1956
- syringomycin, cowpea 7864
- syringomycin, maize 7864
- tobacco, *Erwinia chrysanthemi* protein + lipopolysaccharide 3594
- tomato 7186
- wheat 3468 5333
- Pseudomonas tabaci**,
antibacterial agent, amino acids, plant disease/plant protection 3457
- potato, rishitin/lyubimin 4495
- tobacco, triazinedione derivatives 1119
- Pseudomonas taetrolens**,
dairy product 921
- Pseudomonas testosteroni**,
API test/Oxi Ferm tube 10543
- (+)-cis-1,2-dihydroxy-1,2-dihydronaphthalene-2-carboxylic acid 3228
- L-glutaminase 69 5042
- methioninyl adenylate 4666
- 3-oxosteroid isomerase 34
- polyester degradation 7709
- urocanase, polyacrylamide gel 4113
- Pseudomonas thomasi**,
hospital distilled-water 3129
- Pseudomonas tolaasii**,
mushroom, biological control 2025
- Pseudomonas tomato**,
tomato 7180 9900
- tomato, plant protection 5392
- tomato, triazinedione derivatives 1119
- Pseudomonas utilis**,
protein, methanol 5036
- Pseudomonas vaccine**,
6663
- Pseudomonas viridiflava**,
pectic acid transeliminase 5081
- pectic enzymes 5081
- pectin transeliminase 5081
- polygalacturonase 5081
- Pseudomonas XA**,
indolyl-3-alkane alpha-hydroxylase 8366
- Pseudomonic acid**,
Pseudomonas fluorescens 8189
- Pseudomonic acid 1**,
Pseudomonas fluorescens 8189
- Pseudomonic acid A**,
Pseudomonas fluorescens 7445
- Pseudomonic acid A(Contd.)**,
Pseudomonas fluorescens, structure 7444
- Pseudomonic acid B**,
Pseudomonas fluorescens, structure 7446
- Pseudoperonospora**,
aniline derivatives, plant protection 6365
- furoic amide derivatives, plant protection 8813
- triorganotin compounds/triorganolead compounds 2129
- Pseudoperonospora cannabina**,
hemp 2661
- Pseudoperonospora cubensis**,
cucumber, cold treatment 9949
- cucumber, copper compound 2026
- cucumber, light/temperature 9860
- cucumber, resistance 4456
- melon 9874
- melon, resistance 4466 9874
- Pseudoperonospora humili**,
phosphate derivatives, plant protection 8809
- Pseudopeziza medicaginis**,
alfalfa 9751
- Pseudorabies virus**,
3-deazaguanine/3-deazaguanosine/3-deazaguanilic acid 10183
- lyophilisation/preservation 1237
- Pseudosclerotial plate**,
Armillaria mellea, wood 8864 10024
- Stereum hirsutum*, wood 8864 10024
- Pseudotrisaccharide**,
derivatives, antibacterial agent 2115
- Pseudotsuga menziesii**,
Cylindrocarpon destructans, *Xiphinema bakeri* 8844
- Cytospora kunzei* 10006
- decay fungi 5446
- Dermea pseudotsugae* 6383
- Dermea tetrasperma* 6383
- Fomes annosus* 1122 3604
- Fusarium oxysporum*, soil 2832
- Micropera fosteri* 6383
- Micropera lunaspora* 6383
- Micropera pinicola* 6383
- Micropera uncinata* 6383
- needles, internal fungi 7995
- Phaeocryptobus gaeumarii*, cuprous oxide 1126
- Pheillinus weirii* 1124 7232
- pole, antifungal treatment, kerf 4553
- Polyporus schweinitzii* 3607
- soil, mycorrhiza 6380
- Sparassis crispa* 3607
- Psidium guajava**,
Cylindrocarpon tonkinense post-harvest decay 7189
- Geotrichum candidum* post-harvest decay 2768
- Gliocladium roseum* post-harvest decay 8754
- Mucor hiemalis* post-harvest decay 7946
- Myxosporium psidii* 8664
- Pestalotia* 1003
- Pestalotia psidii* post-harvest decay, homoeopathic drugs 9915
- Phomopsis destructum* 5356
- post-harvest decay, *Colletotrichum gloeosporioides*, tetracycline/thiourea 346
- post-harvest decay, thiabendazole 2767
- Psophocarpus tetragonolobus**,
+ *Rhizobium*, nodulation/nitrogen fixation 4583
- Erysiphe cichoracearum* 9772
- Psoralea argophylla**,
nodulation/nitrogen fixation 2878
- Psoralea corylifolia**,
essential oil, antibacterial agent 5548
- Psoromic acid**,
2-O-demethyl-, *Usnea* 5023

Subject index

- Psorophora ciliata**,
insecticidal microbial film 86
- Psorophora confinnis**,
insecticidal microbial film 86
- Psoriasis**,
Citrus 8662
- Psoriasis young leaf**,
citrus 3494
- Psychrotrophic bacterium**,
milk 140 141
milk, proteolysis/lipolysis 142
- Psylla**,
citrus greening, mycoplasma-like organism,
sweet orange 5355
- Ptarmigan**,
antimicrobial agent 2611
- Pteridine**,
derivatives, bacteriostat 2947
- Pteridium aquilinum**,
fungal disease 9652
- Pterin**,
Serratia indica 2474
- Pterocarpus**,
clover, fungal transformation 3463
red clover, Sclerotinia sclerotiorum/Botrytis
cinerea 1846
- Puccinia**,
8291
benzamide derivatives, plant protection 4508
ethylimidazole derivatives, plant protection
8814
oat, BAS 3170 F 1109
plant disease 2656
plant disease, resistance 3455
soil 3632
triorganotin compounds/triorganolead
compounds 2129
tussilago 252
wheat, BAS 3170 F 1109
- Puccinia antirrhini**,
snapdragon, cold treatment 9949
- Puccinia arachidis**,
groundnut 1853
peanut 6194 8611
peanut, fungicide 8612
- Puccinia bardanae**,
Lappa 6250
- Puccinia bullata**,
Peucedanum grande 2662
- Puccinia carthami**,
safflower 7934 9898 9889
- Puccinia coronata**,
oat, resistance 4449 7199 9933
oat, triazinedione derivatives 1119
ryegrass 285
- Puccinia coronata avenae**,
antifungal agent, plant leaf extracts 1028
axenic culture 786
cereal 4338
oat 4337 4338 9773
- Puccinia dispersa**,
rye 4315
rye, resistance 1093
- Puccinia engleriana**,
Tabernaemontana coronaria 997
- Puccinia fagopyricola**,
Fagopyrum cymosum 997
- Puccinia fimbristylidis**,
Fimbristylis diphyllia 997
Fimbristylis miliacea 997
- Puccinia fuirenicola**,
Fuirena olomara 297
- Puccinia graminis**,
air 4318
barley 272
cereal 271
Graminaeae 4334
Mahoria 4368
rye 272
ryegrass, Puccinia graminis, perennial
ryegrass 4334
spores, plant leaves 7106
- Puccinia graminis (Contd)**,
Timothy grass 4334
wheat 9747
- Puccinia graminis avenae**,
axenic culture 786
oat 1876 3482 4339
- Puccinia graminis hordei**,
barley 4319
- Puccinia graminis secalis**,
axenic culture 786
Rye 4319
rye, resistance 358 1093
- Puccinia graminis tritici**,
axenic culture 786
culture medium 787
wheat 272 292 3489 4319 4354 5339 7134 7894
8654 8655 9773 9809
wheat, computer 7102
wheat, resistance 1985 2786 3551 7951 8655
8772 8773 9933
wheat, zinc-maneb 8811
- Puccinia helianthi**,
sunflower 333 8734 9856
- Puccinia hordei**,
barley 1866
barley, oxycarboxin 2003
barley, resistance 1981 1982 8768 9929
barley, spectral reflectance 7120
barley, zineb 2003
fungicide, plant protection 7206
oat, triazinedione derivatives 1119
plant disease 2659
- Puccinia hystrius**,
Tragopogon 6250
- Puccinia lagenophorae**,
Bellis 6250
Calendula 6250
Cineraria 6250
Senecio 6250
- Puccinia merrilli**,
Smilax prolifera 997
- Puccinia naleanishiki**,
lemon grass 997
- Puccinia oxalidis**,
Oxalis 4368
Oxalis articulata 4368
Oxalis bowiei 4368
Oxalis caprina 4368
Oxalis corymbosa 4368
Oxalis latifolia 4368
- Puccinia pelargonti-zonalis**,
pelargonium, fungicide 6364
Pelargonium x hortorum, cold treatment 9949
- Puccinia persistens**,
couch grass 7880
wheat 7880
- Puccinia podospermi**,
Podospermum 6250
- Puccinia polygonti-ambibii**,
Polygonum dumetorum 1938
- Puccinia polygonti-amphibi**,
Polygonum capitatum 997
- Puccinia recondita**,
2-amidocarbonylthiobarbituric acids 2027
air 4318
axenic culture 786
cereal 271
isothiazolopyridinone derivatives 2975
plant disease 2659
pyridine derivatives 2823
pyrimidine derivatives 2020
thiazinium derivatives 3725
triazolyl-phenyl-phenoxy-3,3-dimethyl-butan-2
-one, plant protection 8817
wheat 1892 1893 2713 6232 7135
wheat, 2-aminopyrimidine derivatives 395
wheat, diphenylamine derivatives 392
wheat, pyrazole derivatives 6368
wheat, resistance 1985 8773
wheat, triazinedione derivatives 1119

Subject index

- Puccinia recondita tritici**,
wheat 293 3450 4355 4357 5335 7895 9773 9810 9811
wheat, computer 7102
wheat, electron microscopy 4356
wheat, fungicide 378
wheat, resistance 3551 9811 9933 9935
wheat, zinc-maneb 8811
- Puccinia romagnoliana**,
Cyperus esculentus 997
- Puccinia rubigo-vera tritici**,
wheat, furan-3-carboxamide derivatives 1112
- Puccinia saxifragae**,
Conimittella williamsii 2736
- Puccinia sorghi**,
chlorodicyano benzene organosulphur derivatives, plant protection 5595
corn 2694 5328 8640
corn, fungicide 9963
corn, haustorial neckband, Casparian strip 4300
corn, resistance 2782
- Puccinia sparganioides**,
smooth cordgrass 3480
- Puccinia striiformis**,
Agropyron intermedium, resistance 5408
barley 3476
barley, resistance 8769
fungicide, plant protection 7206
spores, plant leaves 7106
wheat 294 4358 5340 7896 7897 7898
wheat, BAS 3050 F 1109
wheat, fungicide 7971
wheat, resistance 5408
- Puccinia striiformis dactylidis**,
cock's foot 7121
- Puccinia suaveolens**,
Cirsium 6250
- Puccinia triticina**,
wheat 4315 5341 6237 9812
- Puccinia xanthii**,
fructification sections, scanning electron microscopy 3197
- Pucciniastrum goeppertianum**,
balsam fir, lowbush blueberry 8000
- Pullulan**,
Dematium pullulans 8408
Pullularia fermentans 8408
Pullularia pullulans 8408 8409
- Pullulan broth**,
filtration characteristics 3355
- Pullulanase**,
Bacillus cereus, maltose 2453 2454
immobilization, microorganisms 2
Klebsiella 9432
Klebsiella ozaenae 9432
Klebsiella pneumoniae 2502 9432
Klebsiella rhinoscleromatis 9432
microbial 9501
- Pullularia**,
antibiotic A23187 2239
- Pullularia fermentans**,
pullulan 8408
- Pullularia pullulans**,
aminocarbonylthioates 1263 1264
benzisothiazolin-3-one derivatives 534
benzisothiazolinone + quaternary ammonium compound 4687
bicyclic polyoxymethylene-oxazolidines 471
8-chloro-10,11-dihydrodibenz(b,f)(1,4)oxazepine transformation 4137
bis(diphenylaminomethane) derivatives 1265
fungicide 2053
hydrazino-pyridine derivatives 2139
monocyclic polyoxymethyleneoxazolidine 2090
protein, straw hydrolysate, food/animal feed 4054
pullulan 8408 8409
L-rhamnose dehydrogenase 1677
- Pulp industry**,
slimicide, alpha-chloro-o-acylbenzaldehyde derivatives 3891
wastewater treatment 4864
- Pulp mill**,
antibacterial agent/antifungal agent, paraldol 3721
fungicide/bactericide, halocyanacetamide + haloacetic ester 1490
slimicide, alpha-bromo-p-methylacetophenone + 1,3-dichloroacetone oxime acetate 10470
sludge, composting 6669
- Pultenea humilis**,
Phytophthora cinnamomi 8597
- Pultenea involucreta**,
Phytophthora cinnamomi 8596
- Pulvomycin**,
labilomycin 1385
- Pumpkin**,
Ascochyta cucumis 4411
Fusarium oxysporum 4411
Fusarium roseum 4411
Fusarium solani 4416
pumpkin mosaic virus, tissue culture 791
pumpkin yellow mosaic virus 3527
Sclerotium rolfsii 2755
Sphaerotheca fuliginea 1056
- Pumpkin mosaic virus**,
tissue culture 791
- Pumpkin yellow mosaic virus**,
pumpkin 3527
- Punica granatum**,
Aspergillus niger post-harvest decay 8756
Cladosporium oxysporum 1000
Cladosporium oxysporum post-harvest decay 4443
Penicillium expansum post-harvest decay 8756
Pestalotia 1003
post-harvest decay, *Rhizopus arrhizus* 1091
post-harvest decay, *Rhizopus arrhizus*, fungicide 1965
- Puraseed**,
Ooercolella padwickii 1100
- Purging**,
carbon dioxide, cucumber brine fermentation, bloater control 4249
- Purifier**,
water 9215 9216 9217
- Purine**,
derivatives, antifolate agent, *Streptococcus faecalis* 501
derivatives, *Streptococcus faecalis* 7325
microbial degradation 119
- Purine sugar**,
derivatives, antiviral agent 1245
- Puromycin**,
Streptomyces alboniger 8190
tobacco necrosis virus, *Chenopodium amaranticolor* 4425
- Purple leaf spot**,
Protonomyces thirumalacharii, *Sesbania grandiflora* 4302
- Purple seed stain**,
Cercospora kikuchii, soybean seed 6199
- Purple stain**,
Cercospora kikuchii, soybean 5310
- Purple top roll disease**,
mycoplasma-like organism, potato 5386
- Purpuromycin**,
Actinoplanes ianthiogenes, antibacterial agent/antifungal agent 10402
- Pustule**,
Xanthomonas ampelina, soybean 6196
Xanthomonas, cowpea, resistance 7194
- Putrescine**,
Escherichia coli, antibiotics resistance 2098
Salmonella typhi, antibiotics resistance 2098

Subject index

- Pycnoporus sanguineus**,
cellulose pulp 1707
- Pyocin**,
Pseudomonas aeruginosa, antibiotics 8191
Pseudomonas aeruginosa, antibiotics
resistance 2926
Pseudomonas aeruginosa, typing 7546
- Pyocin 611 131**,
Pseudomonas aeruginosa, Neisseria gonorrhoeae
647
- Pyocin cetrimide**,
Pseudomonas aeruginosa, medium 4045
- Pyocin P1**,
resistance, Enterobacteriaceae 7447
resistance, Salmonella minnesota 7447
Salmonella minnesota 7447
- Pyocin typing**,
Pseudomonas aeruginosa 8281
- Pyracarbolid**,
Rhizoctonia solani, plant protection 3585
- Pyramin**,
degradation, soil microorganisms 1176 1177
- Pyran-carboxylic acid anilide**,
derivatives, fungicide, plant protection
8820
- Pyran-indole**,
derivatives, antibacterial agent/antifungal
agent 7345
- Pyranone**,
derivatives, antiviral agent 525
- Pyrazinamide**,
Mycobacterium farcinicum 4648
Mycobacterium phlei 4648
Mycobacterium smegmatis 4648
Mycobacterium tuberculosis 4648
- Pyrazine**,
derivatives, Mycobacterium tuberculosis 3680
10134
derivatives, Pseudomonas graveolens, milk
921
derivatives, Pseudomonas perolens, fish 921
- Pyrazine-2-carbothioamide**,
derivatives, Mycobacterium tuberculosis 2930
- Pyrazine-2-carboxylic acid**,
derivatives, Mycobacterium tuberculosis 8968
- Pyrazinone**,
3-isobutyl-6-(3-guanidinopropyl)-2(1H),
Streptomyces toxytricina 5145
- Pyrazofurin**,
10221
acylates, Streptomyces candidus, antifungal
agent/antiviral agent 2138
- Pyrazole**,
3,5-diaryl-4-(substituted
sulphonamidobenzeneazo)-, antibacterial
agent 5558
derivatives, antibacterial agent 1222 5557
5559 6500
derivatives, fungicide, plant protection
6368
derivatives, Staphylococcus aureus 499
2,3-dihydro-1H-imidazo[1,2-b]-, herpes
simplex virus 3716
nitroimidazolyl-, derivatives, antibacterial
agent/antifungal agent, animal feed 9625
- Pyrazolium**,
derivatives, fungicide, plant protection
1114 2812 3581 4511
- Pyrazolo-(thiono)-phosphoric(phosphonic)acid
ester**,
fungicide 509
- Pyrazolocholine**,
derivative, interferon/antiviral agent 5581
- Pyrazon**,
bacterial degradation, 4-oxalocrotonate
decarboxylase 5197
bacterial degradation, pyrocatechase 5196
degradation, bacterial, pyrazon dioxygenase
7656
- Pyrazon dioxygenase**,
pyrazon-degrading bacteria 7656
- Pyrazone**,
degradation, soil microorganisms 1176 1177
- Pyrene**,
marine bacteria 479
microbial degradation 1708
- Pyrenochaeta**,
antibiotic A-32340, antibacterial
agent/antifungal agent 10340 10341
growth inhibitor, rice 7136
oil palm kernels 4220
- Pyrenochaeta lycopersici**,
melon 6251
microsclerotia 4984
tomato 6251 6312
tomato, resistance testing 361
- Pyrenochaeta parasitica**,
conifers 3605
European silver fir 2835
- Pyrenochaeta terrestris**,
corn 6635
phomazarin, structure 85
- Pyrenomycetes**,
antibiotics 9026
- Pyrenophora**,
soil 7432
- Pyrenophora graminea**,
barley seed 6207
- Pyrenophora teres**,
barley 3477 9777
barley, resistance 9777
barley seed 6207
- Pyrenophorin**,
2268
- Pyrethrin**,
Fusarium graminearum, zearalenone 2636
- Pyricularia**,
benzimidazole-1-carboximidic acid esters
1116
Eleusine coracana 268
ethylimidazole derivatives, plant protection
8814
gramineae 268
- Pyricularia grisea**,
Digitaria, resistance 4448
pangola grass 3483
- Pyricularia oryzae**,
4-thiocyano-quinazolines 2024
aminocarbotrithioates 1263 1264
amipurimycin 9124
bis-trifluoromethyl-imine-imidazolone
derivatives, plant protection 5429
blasticidin S tolerance, rice 7218
carbamate derivatives, plant protection 4506
cellulase 5931
decahydroquinoline phosphorylthio-acetyl
derivatives, plant protection 4513
deisovaleryl-blastomycin 5722
diallyl-disulphide 388
dihalo-sulphonate derivatives, plant
protection 7979
dihydroxydinaphthylmethane, plant protection
4509
garlic oil 388
isothiazolopyridinone derivatives 2975
isothiocyanate derivatives 3722
octahydroindole phosphorylthio-acetyl
derivatives, plant protection 4513
octahydropyridine phosphorylthio-acetyl
derivatives, plant protection 4513
oxazolidine derivatives 3703
Panicum repens 7127
phosphoryl phenylamine derivatives 1118
plant disease, fungicide 7222
pyridine derivatives 2823
pyrimidine derivatives 2020
resistance, kasugamycin, blasticidin S 8966

Subject index

Pyricularia oryzae (Contd),

rice 1035 1881 2704 2705 2706 4341 4342 4343
9799 8646
rice, 2-aminopyrimidine derivatives 395
rice, amipurimycin 9124 9125
rice, benomyl 7215
rice, 2,2-dichloro-3,3-dimethylcyclopropane
carboxylic acid, phytoalexin 8785
rice, dinhenylpyrazolium derivatives 1114
rice, fungicide 4486 4487 5419
rice, Magnaorthe salvinii 5331
rice, plant protection 1029
rice, pyrazolium derivatives 2812 3581 4511
rice, resistance 2785 4341 4342
rice,

7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine
derivatives 3589

rice seed 6223

rice, thiophosphoric acid ester amide
derivatives 1117

triazolo-benzothiazole derivatives, plant
protection 7216

O-(2-vinylphenyl)-thiolphosphate derivatives
3577

vinylphenyl-thiolphosphate derivatives, plant
protection 4505

Pyricularia pennisetii,

bajra 1025

Pyricularia setariae,

amipurimycin 9124

Pyridazine,

derivatives, bacteriostat 2117

derivatives, fungicide, plant protection
2C19

Pyridazine-2-oxide,

derivatives, antibacterial agent/antifungal
agent 3532

Pyridindolol,

Streptomyces alboverticillus,
beta-galactosidase inhibitor 5155

Pyridine,

2-hydroxy-, degradation, soil Arthrobacter
pyridinolis, pigment 4129

derivatives, bactericide/fungicide 2139
derivatives, fungicide, plant protection
7211

indeno-, derivatives, antibacterial agent
10161

Pyridine nucleotide transhydrogenase,

Pseudomonas aeruginosa 4106

Pyridinium,

derivatives, fungicide, plant protection
3583

Pyridinone,

isothiazolo-, derivatives,

bactericide/fungicide 2975

isothiazolo-, derivatives, fungicide, plant
protection 2975

Pyridone,

1-[(5-nitro-2-furoyl)methyl]-2(1H)-,

antibacterial agent 10157

4-benzoyloxy-2(1H)-, antibacterial

agent/antifungal agent 9009

Pyridoxine,

beer/yeast, assay, Saccharomyces

carlsbergensis 4160

microbiological assay, beer, yeast 6016

Micrococcus, alkane 10098

Pyridoline,

analogues, cucumber mosaic virus, chilli
8834

derivatives, antibacterial agent 502 4661
8978

derivatives, antifolate agent, Streptococcus
faecalis 501

derivatives, antifungal agent, plant
protection 395

derivatives, antimicrobial agent 10192

derivatives, fungicide, plant protection
2020 3584 9978

Pyrimidine (Contd),

derivatives, influenza virus 523

derivatives, menovirus 4682

derivatives, Streptococcus faecalis 7325

imidazo-, derivatives, fungicide, plant
protection 4512

2-methylthio-(3-iodo)robaronyloxy-,
antifungal agent 3705

microbial degradation 119

purine degradation 119

resistance, phytopathogenic fungi 376

7-(beta-D-ribofuranosyl)-pyrrolo-derivatives,
antifungal agent, plant protection 3589

Pyrimidinol,

2-amino-5-bromo-6-methyl-4-, interferon,
antiviral agent 8999

Pyrimido-benzimidazole,

derivatives, antiviral agent 2967

Pyridine,

octanyro-, phosphorylthio-acetyl
derivatives, fungicide, plant protection
4513

Pyrite,

Desulfovibrio desulfuricans, soil 6456

Pyritic mine spoil,

microbial acids 7284

Pyritization,

ferric sulphate, Desulfovibrio desulfuricans,
soil 6454

Pyrocatechase,

bacterial, pyrazon degradation 5196

Pyrogalllic acid,

Trichoderma lignorum 6506

Pyrogen,

rabbit, tritiated Escherichia coli endotoxin
assay 9725

Pyrogen test,

United States Pharmacopeial, bacterial
endotoxin 8575

Pyrolysis,

sludge, activated carbon 677

Pyrolysis + mass spectrometry,

microorganisms 5824

Pyrone,

derivatives, fungicide, plant protection
6366

Pyrophosphatase,

soil microorganisms 10045 10046

Thiobacillus thiooxidans 7657

Pyroxychlor,

Phytophthora palmivora, ivy 2745

Phytophthora parasitica, Pilea imperialis
3518

Phytophthora parasitica, radiata pine 4548

Phytophthora parasitica, tobacco 9972

Pythium ultimum, larkspur 2805

root rot fungi, pea 377

seed treatment, Phytophthora megasperma,
soybeans 2030

Pyrrrol,

derivatives, antibacterial agent/disinfectant
2943

nitro-, derivatives, antimicrobial agent
9004

Pyrrrole-2-carboxamide,

derivatives, antibacterial agent/disinfectant
3139

Pyrrrolidine,

derivatives, antibacterial agent/antifungal
agent 9006

Pyrrolidone,

N-methyl-2-, + thiabendazole, fungicide,
plant protection 5433

delta-Pyrrroline-5-carboxylate reductase,

Escherichia coli 3314

Pyrrrolitrin,

9501

Subject index

Pyrrolo-pyrimidine,

- 7-(beta-D-ribofuranosyl)-, derivatives, antifungal agent, plant protection 3589

Pyrus,

- Alternaria tenuis* 9842
- Botryodiplodia malorum* 9843
- decline, mycoplasma-like organism, fluorescence microscopy 1047
- decline, terramycin, pressure machine, tree injection 7996
- Erwinia amylovora*, bactericide 5439
- Erwinia amylovora*, biological control 5439
- Erwinia amylovora*, streptomycin resistance 2822
- Erwinia amylovora*, triazinedione derivatives 1119
- pear vein yellows virus 5361
- Podosphaera leucotricha*, diphenyl pyrazolium derivatives 1114
- resistance, *Erwinia amylovora* 8775
- Trichothecium roseum* post-harvest decay, trichothecine, trichothecolon 8750
- Venturia pirina* 2726
- Venturia pirina*, fungicide 2795 2796
- Venturia pirina*, thioureidobenzene phosphates 2014

Pyrus amygdaliformis,

- Gymnosporangium sabinae* 9819

Pyrus communis,

- Gymnosporangium sabinae* 9819
- pear vein yellows virus 5361
- Podosphaera leucotricha*, pyrazolium derivatives 4511
- Pseudomonas syringae*, antibacterial agent 8828
- resistance, *Erwinia amylovora* 3554

Pyrus serotina,

- Alternaria kikuchiana*, AK-toxin 3498

Pyruvate,

- milk 6036
- sulphur oxidation, *Thiobacillus thiooxidans* 5513

Pyruvate carboxylase,

- Arthrobacter globiformis* 8393

Pyruvate dehydrogenase,

- Escherichia coli* 9433
- Escherichia coli*, molecular weight 7658

Pyruvate-ferredoxin oxidoreductase,

- Clostridium pasteurianum* 1673

Pyruvate kinase,

- AMP-activated, *Escherichia coli* 8394
- Escherichia coli*, proflavine 10163
- Streptococcus* group N, lactose fermentation, milk 2570

Pyruvate oxidase,

- Escherichia coli* 3315

Pyruvate, phosphate dikinase,

- Propionibacterium shermanii* 4107

Pyruvate test,

- milk 7732

Pyruvic acid,

- bacteria, dry milk product 3386
- Saccharomyces carlsbergensis*, microelements 8436

Pythium,

- 2-amidocarbonylthiobarbituric acids 2027
- 4-thiocyano-quinazolines 2024
- ammonium/potassium isobutyrate 1257
- bean 1842
- bis-trifluoromethyl-imine-imidazolone derivatives, plant protection 5429
- bottle gourd seed, seed treatment fungicide 8682
- carrot 3505 8685
- chilli, plant protection 7145
- corn 4330
- creeping bentgrass, benomyl 4517
- cucumber, fungicide 380

Pythium(Contd),

- cucumber,
 - 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589
 - okra, soil treatment 9969
 - oospores, parasitic microorganisms, soil 8881
 - perennial ryegrass rhizoplane, chloropicrin 457
 - phospholane/phosphite derivatives 3576
 - Phytophthora selective medium, soil, plants 7586
 - plant disease 6172
 - ponderosa pine, soil treatment 6391
 - pyridazine derivatives 2019
 - soil 3632
 - soil Actinomycetales 5481
 - soil, fungistasis, ethylene 2861
 - soil, hymexazol, *Phytophthora* selective medium 10054
 - soil, mycoparasitism, *Hyphochytrium catenoides* 5480
 - soil, plant damping-off 6433
 - soil, plant disease 6418
 - soil, subsoiling 10038
 - soil, wheat, wheat spindle streak mosaic virus 8650
 - soybean 6196
 - spinach, plant protection 1951
 - tetrazolo-pyrimidine derivatives, plant protection 3584
 - tobacco mosaic virus 4424
 - tomato, plant protection 5392
 - tomato post-harvest decay 5392
 - triazine derivatives, plant protection 8821
- ## Pythium afertile,
- carrot 3505
- ## Pythium aphanidermatum,
- amiprimycin 9124
 - bean/soil 2069
 - corn 7883
 - cucumber, fungicide 380
 - oospore 8297
 - phosphoryl phenyldiamine derivatives 1118
 - soil Actinomycetales 5481
 - soil, mycoparasitism, *Hyphochytrium catenoides* 5480
 - squash 4416
 - sugarbeet, ceresan sugarbeet 2034
 - thiabendazole, plant protection 2818
 - 1,3,4-thiadiazole urea derivatives 3582
 - tobacco mosaic virus 4424
 - tomato 1085
 - tomato fruit rot 3545
 - tomato, resistance 1086
- ## Pythium arrhenomanes,
- tobacco mosaic virus 4424
- ## Pythium butleri,
- bottle gourd 4374
 - Egyptian clover 9762
 - tomato 5394
- ## Pythium culcatum,
- carrot 3505
- ## Pythium debaryanum,
- furoic amide derivatives, plant protection 8813
 - imidazolidine-1,4-dione derivatives 2135
 - N-phenyl maleic imide derivatives 393
 - poly(ethyleneimine S-alkyldithiocarbamates) 5570
 - sugarbeet, biological control, *Pythium oligandrum* 9991
 - tobacco mosaic virus 4424
 - triorganotin compounds/triorganolead compounds 2129
- ## Pythium deliense,
- ginger 1061
 - tobacco mosaic virus 4424
- ## Pythium echinulatum,
- soil 7262

subject index

- ythium graminicola*,
 barley 6208
ythium heterothallicum,
 sugarbeet 6298
ythium intermedium,
 carrot 3505
ythium irregulare,
 bean/soil 2069
 carrot 3505
 soybean 5313
 spinach, plant protection 1951
 squash 4416
 strawberry, phenolic compounds 1952
ythium mamillatum,
 bean/soil 2069
ythium myriotylum,
 bean/soil 2069
 oospore 8297
 soil Actinomycetales 5481
 soil, mycoparasitism, *Hyphochytrium*
 catenoides 5480
 soybean 5313
ythium oligandrum,
 biological control, *Pythium*
debaryanum/Pythium ultimum, sugarbeet 9991
ythium paroeandrum,
 bean/soil 2069
ythium polymorphon,
 celery, nematode 1918 7911
ythium spinosum,
 bean/soil 2069
ythium splendens,
 geranium 8694
 soil Actinomycetales 5481
ythium sulcatum,
 carrot 8685
ythium sylvaticum,
 carrot 3505
 sugarbeet 6298
ythium torulosum,
 carrot 3505
ythium ultimum,
 bean, resistance 8765
 bean/soil 2069
 citrinin, anti-cholesterol agent,
 hypocholesterolemic agent 5727
 cotton, seed treatment fungicide 9992
 formamide derivatives, plant protection 7336
 larkspur, fungicide 2805
 letil, plant protection/fungicide 2789
 oxadiazolidine-3,5-dione derivatives 1115
 pea, 2-aminopyrimidine derivatives 395
 pea, fungicide 377
 pyrimidine derivatives 2020
 soil, fungistasis 5482
 soil, mycoparasitism, *Hyphochytrium*
 catenoides 5480
 sugarbeet, biological control, *Pythium*
 oligandrum 9991
ythium vexans,
 10055

 fever antigen,
 phase 1, vaccine 664
 uahaug,
 coliform/Salmonella 188
 uahog,
 yeasts 6086
 uail,
 Japanese, *Aspergillus oryzae* fermented
 soybean feed 946
 Japanese, egg, aflatoxins 6138
 Japanese, feed, zearalenone 1769
 Japanese, ochratoxin 234
 uail pea mosaic virus,
 bean curly dwarf mosaic virus, bean 6178
- Quality,**
 distilled water, interval plating technique
 6755
 food, microbiological sampling system 2363
 food, water activity 4184
 milk 2412
 milk powder 2412
 packaged milk 5254
 river water 3133 4877 4878 4879
 water 1501 2321
 water, microbiological indicators 2334 2335
 2336 2337
 water, microbiological sampling system 2363
 water, periphyton sampler 1497
Quality control,
 548, 549, 1291-1294, 2163, 3744-3745, 5614,
 5615, 6542, 7361, 7362, 8109, 9020-9024
 1291
 animal feed 199
 antibiotic ophthalmic ointment 1294
 antibiotics 4018
 antibiotics, intravenous solution 6542
 bacterial endotoxin, *Limulus amoebocyte*
 lysate test 7843 7845
 beer 5172 8444 8445
 beer, yeast, sampling 8446
Bordetella pertussis vaccine 4841
 bovine cell culture, mucosal disease virus
 8109
 bovine foetal serum, mucosal disease virus
 8109
 brewing industry, gel chromatography 91
 brine, bacon curing 4241
 butter, coliforms 5212
 cell culture, *Mycoplasma*, fluorescent Hoechst
 33258 stain 6800
 cheese 9557
 clinical laboratory 2405
 cosmetic 1292 2163 3935 4022
 dried food 130
 drugs 4018
 eye cosmetic/medicament 548
 fermentation, gas chromatography,
 methanol/fusel oil 92
 fish 4213
 fish product 4213
 food 906 1292 2557 2592 3373 4185 6024 6809
 6986
 frozen erythrocytes, bacteria 1293
 fungal culture medium 9023
 gram stain 7361
 ice cream 144
 influenza virus vaccine 3825
 infusion solution, bacterial endotoxin,
Limulus test 1817
 infusion therapy 3221
 intravenous fluid, bacterial endotoxin,
Limulus amoebocyte lysate test 8576
 intravenous infusion 5806
 Kovacs' reagent, indole 4945
 meat hot boning 8509
 meat product 5231
 medicament 1292
 milk 3383
 milk, double reductase test 9537
Mycoplasma, serum protein 2402
 ointment 5615
 packaged minced meat 2583
 pathogenic microorganisms isolation, medical
 microbiology laboratory 5614
 penicillin, membrane filtration 10287
 pharmaceutical 2163 3744 9020 9021
 pharmaceutical gelatin, membrane filtration
 9022
 prerduced anaerobically sterilised medium,
 butyl rubber stoppers 9261
 protozoan culture medium, fungicide,
 5-fluorocytosine 9024
 refrigerated/frozen food 4186
Salmonella O polyvalent/Vi antisera 3745

Subject index

Quality control(Contd),

sera 10414
 small-volume sterile packaged product 7362
 soft contact lens 4701
 tetracycline 5697
 tissue culture, Mycoplasma 549
 ultra-high temperature milk/ultra-high
 temperature milk product 9670
 vaccines 10414
 vaccines, bacterial endotoxin, Limulus
 amoebocyte lysate test 7844 7846
 water 2321 9219
 yoghurt 148

Quality gauge,
 milk 138

Quarantine,
 sugarcane, microbial diseases 4478

Quarg,
 stabiliser 963

Quark,
 2572 5214

Quartz,
 fungal degradation 905
 fungi 4851

Quaternary ammonium compound,
 + benzisothiazolinone, bactericide/fungicide
 4687
 abattoir disinfectant 4897
 alkyltrimethylammonium bromides, bactericide
 10164
 antibacterial agent 2949 5802
 antibacterial agent/antifungal agent 6527
 antibacterial agent/antifungal agent, dental
 caries/dental calculus 2145 2146
 antibacterial agent, industrial water system
 2319 3890
 antifungal agent/antibacterial agent, oral
 hygiene 1535
 antimicrobial agent, disinfectant 3904
 antiseptic 5802
 bactericide/fungicide 3731
 bactericide/fungicide, cosmetic 5803
 beef 7767
 cephalosporin, antibacterial agent 5638
 cosmetic preservation 4698
 degradation, sewage/soil bacteria 7711
 disinfectant 5802
 disinfectant testing 726
 endo-tracheal catheter sterilisation 5603
 fungicide 2961
 germicide 3905
 germicide, food industry 6742
 laundry washing machine sanitation 4892
 penicillin, antibacterial agent 5638
 resistance, Pseudomonas aeruginosa, electron
 microscopy 2096
 teat dip, cattle mastitis 3922
 viricide 4673
 wastewater disinfection 8239
 water disinfection 8239

Quaternary ammonium methylene phosphonate,
 bactericide/fungicide 3731

Quaternary ammonium phenolate,
 antibacterial agent/antifungal agent, paper
 2907

Quaternary ammonium salt,
 antifungal agent/antibacterial agent 470

Quercus,
 Ceratocystis fagacearum 8858
 fungi 9996
 Phlebia chrysocrea 418
 Polyporus frondosus 2851
 Polyporus sulphureus 2851
 resistance, Lenzites trabea 420
 soil, macronutrients, litter microorganisms
 7994
 wood, Serpula lacrimans 7243

Quercus agrifolia,
 Phytophthora cactorum 8860
 Phytophthora cinnamomi 8860

Quercus agrifolia(Contd),

Phytophthora citricola 8860

Quercus alba,
 Cronartium fusiforme, Darluca filum,
 biological control 2049

Quercus laurifolia,
 Cronartium fusiforme, Darluca filum,
 biological control 2049

Quercus marilandica,
 Cronartium fusiforme, Darluca filum,
 biological control 2049

Quercus minima,
 Cronartium strobilinum, Darluca filum,
 biological control 2049

Quercus nigra,
 Cronartium fusiforme, Darluca filum,
 biological control 2049

Quercus palustris,
 Endothia gyrosa 5461

Quercus petraea,
 wood degradation, forest soil 6401

Quercus phellos,
 Cronartium fusiforme, Darluca filum,
 biological control 2049

Quercus prinoides,
 Cronartium quercum 997

Quercus pumila,
 Cronartium strobilinum, Darluca filum,
 biological control 2049

Quercus robur,
 Microspheera alphitoides 2850
 wood degradation, forest soil 6401

Quercus rubra,
 Ceratocystis fagacearum 2048
 resistance, Ceratocystis fagacearum 8859

Quercus suber,
 Armillaria mellea 10015
 Armillaria tabescens 10015
 Phytophthora cactorum 8860
 Phytophthora cinnamomi 8860
 Phytophthora citricola 8860

Quercus velutina,
 Cronartium fusiforme, Darluca filum,
 biological control 2049

Quinacrine,
 + ampicillin, Salmonella typhimurium 4766

Quinazoline,
 4-thiocyano, fungicide, plant protection
 2024
 derivatives, bactericide, animal feed 7037
 derivatives, Candida albicans 7335
 nitrofuryl-vinyl-anilino-, derivatives,
 bactericide, animal feed 6504

Quinazolinone,
 derivatives, antiviral agent 4684

Quince,
 Sclerotinia laxa 1900

p-Quinol,
 antibacterial agent 8981

Quinolate-15,
 Operculella padwickii 1100

Quinolone,
 3-phenyliso-, antibacterial agent/antifungal
 agent 6529
 8-hydroxy-, antibacterial agent, laundry oil
 3140
 antibacterial agent/antifungal agent 6529
 chlorhydroxy-, assay, Streptococcus faecalis
 8101
 decahydro-, phosphorylthio-acetyl
 derivatives, fungicide, plant protection
 4513
 degradation, soil Moraxella 3371
 derivatives, antibacterial agent/antifungal
 agent 2140
 derivatives, antibacterial agent/antifungal
 agent/antiviral agent 2141
 derivatives, antifungal agent/antibacterial
 agent, plant protection 404

Subject index

- Quinolone-2-methanol**,
Kitasatoa griseophaeus 5128
- Quinolone-2-methanol acetate**,
Kitasatoa griseophaeus 5128
- Quinolone-8-carboxylic acid**,
derivatives, antibacterial agent/antifungal agent 1273
- Quinolinedione**,
sulphamoyl-, bacteriostat 5562
- Quinolinol**,
5,7-dichloro-2-methyl-, glucosidation,
Sporotrichum sulfurescens/Rhizopus colinii 78
- Quinolizine**,
derivatives, antibacterial agent/antifungal agent 8100
- Quinolizine-2-carboxylic acid**,
derivatives, antibacterial agent/antifungal agent 4694
- Quinolone**,
derivatives, antimicrobial agent 2142
- Quinomycin A**,
7448
- Quinomycin B**,
7448
- Quinomycin Bo**,
7448
- Quinomycin C**,
7448
- Quinomycin D**,
7448
- Quinomycin E**,
7448
- Quinone**,
benzob[1]thiophen-4,7-, Caldariella acidophila 6957
- Bulgaria inquinans 5130
- Quinonemonoxime hydrazone**,
derivatives, fungicide, plant protection 7217
- Quinoxaline**,
2,3-bis(acetyl mercaptomethyl)-, herpes simplex virus 4685
- derivatives, antibacterial agent 504
- derivatives, antibacterial agent/antifungal agent 5598
- 4,5-dihydrotetrazolo(1,5-a)-, derivatives,
antibacterial agent/antifungal agent, plant protection 9989
- Quinoxaline-1,4-dioxide**,
derivatives, antibacterial agent 3689
- Quinoxaline-2-carboxamide-1,4-dioxide**,
derivatives, antibacterial agent 8982
- Quinoxaline-di-N-oxide**,
derivatives, antibacterial agent 1226
- Quintozene**,
see also Pentachloronitrobenzene and Terraclor
- Fusarium nivale, bentgrass 8795
- Fusarium solani, letil 2789
- Pythium ultimum, letil 2789
- Rhizoctonia solani, letil 2789
- Sclerotinia borealis, bentgrass 8795
- snow mould fungi, turfgrass 4485
- Typhula FW, bentgrass 8795
- R27180**,
benzimidazole-tolerant Sclerotinia fructicola, peach 8798
- R-28921**,
Fusarium nivale, bentgrass 8795
- Sclerotinia borealis, bentgrass 8795
- Typhula FW, bentgrass 8795
- R/B 3 tube system**,
Enterobacteriaceae 10559
- R/B Enteric Differential System**,
Enterobacteriaceae 8273
- Modified-expanded,
Salmonella/Enterobacteriaceae, food 9534
- R factor**,
bacteria, aminoglycoside antibiotic resistance 2104
- bacteria, antibiotics/antibacterial agent resistance 1195 1156 1197
- bacteria, antibiotics resistance 4629 5877
- coliform, antibiotic resistance, sewage treatment 2305
- Enterobacteriaceae, antibiotics resistance 4629
- Escherichia coli, aminoglycoside 3-phosphotransferase II 6483
- Escherichia coli, antibiotics resistance 4629
- Escherichia coli, antidiotics resistance, tetracycline 6490
- Escherichia coli, cephalosporin-binding proteins 6847
- Escherichia coli, chloramphenicol resistance, chloramphenicol acetyltransferase 8960
- Escherichia coli, gentamicin/tobramycin/carbenicillin resistance 8052
- Escherichia coli, kasunamycin 10374
- Escherichia coli, penicillin-binding proteins 6847
- Escherichia coli, penicillin resistance, beta-lactamase 8954
- Escherichia coli, transfer, pipemidic acid 3670
- Haemophilus influenzae, antibiotics resistance 10118
- intestinal bacteria, antibiotics resistance 7298
- Klebsiella aerogenes, beta-lactamase, penicillins/cephalosporins resistance 10122
- Klebsiella**,
gentamicin/tobramycin/carbenicillin resistance 8052
- Klebsiella pneumoniae, gentamicin resistance 6485 6486
- Klebsiella pneumoniae, mercury + antibiotics resistance 8444
- microorganisms, antibiotic mixture assay 2990
- microorganisms, genetic recombination 10513
- Neisseria gonorrhoeae, penicillin resistance, beta-lactamase 6478
- Pasteurella pestis, penicillin C resistance, penicillinase 5532
- Pseudomonas aeruginosa, carbenicillin resistance 7306
- Pseudomonas aeruginosa, gentamicin resistance 7308
- Pseudomonas aeruginosa, transfer, pipemidic acid 3670
- Pseudomonas, antibiotics resistance 5528
- Pseudomonas, carbenicillin resistance 5528
- Pseudomonas, mercury resistance 5528
- Salmonella, antibiotics resistance 4635 8949
- Salmonella typhi, antibiotics resistance 5529
- Salmonella typhi, chloramphenicol resistance 4635
- Serratia marcescens,
gentamicin/tobramycin/carbenicillin resistance 8052
- sewage coliforms, antibiotic resistance transfer 6473
- Shigella dysenteriae, ampicillin resistance 487 6479
- Shigella dysenteriae,
chloramphenicol/streptomycin/tetracycline/sulphadiazine resistance 487
- Shigella sonnei, nalidixic acid 8479

Subject index

- Raman spectroscopy,**
valinomycin 8197 8198
- Raman spectrum,**
pre-resonance, adriamycin 2249
Pseudomonas putida cytochrome P450cam 7403
- Ramie,**
microbial degradation 111
Myrothecium roridum 7168
Rhizoctonia bataticola 8721
- Ramularia,**
8291
Rumex 252
strawberry 252
- Ramularia areola,**
cotton 7141
- Ramularia carthami,**
safflower 305
- Ramularia goeldiana,**
plant disease 2654
- Ramularia phaseoli,**
bean 2670
- Ramulispora sorghi,**
Johnson grass 3485
Sorghum vulgare 3485
- Rancinamycin I,**
Streptomyces lincolnensis, antibacterial agent 5759
Streptomyces lincolnensis, structure 5758
- Rancinamycin II,**
Streptomyces lincolnensis, antibacterial agent 5759
Streptomyces lincolnensis, structure 5758
- Rancinamycin III,**
Streptomyces lincolnensis, antibacterial agent 5759
Streptomyces lincolnensis, structure 5758
- Rancinamycin IV,**
Streptomyces lincolnensis, antibacterial agent 5759
Streptomyces lincolnensis, structure 5758
- Ranikhet disease virus,**
carbazole derivatives 8090
- Rao's covariance adjusted estimators,**
microbial growth curve 10518
- Rapamycin,**
Streptomyces hydropiscus, antifungal agent 1437
- Rape,**
Cochliotolus sativus, wheat 2712
Leptosphaeria maculans 6292
Leptosphaeria maculans, benomyl 3598
Phoma linum toxin 7072
Plasmodiophora brassicae 6293
turnip-, *Cochliobolus sativus*, wheat 2712
- Rapeseed,**
Alternaria brassicae 4412
Leptosphaeria maculans 8722
post-harvest decay 8759
protein, *Geotrichum candidum*, food 4191
resistance, *Alternaria brassicae* 4412
Sclerotinia sclerotiorum 8723
storage, fungi 6326
- Raphanus,**
see radish
Peronospora parasitica 9861
- Raphanus sativus,**
Agrobacterium tumefaciens 1942
Fusarium oxysporum 7167
mosaic virus 6291
poliovirus, sewage sludge/effluent soil disposal 4561
seed, *Aspergillus flavus* 1838
- Raphiolepis,**
Entomophorum mespili 6294
- Rapid carbohydrate degradation test,**
Neisseria gonorrhoeae 1573
- Rapid tube test,**
funnel cellulase 6868
- Rappaport's medium,**
malachite green, *Salmonella* 5852
Salmonella 10587
- Raspberry,**
black, microbial diseases 1078
Botrytis cinerea, ferbam 4507
Didymella applanata 4291
Didymella applanata, ferbam 4507
ferbam, raspberry, *Botrytis cinerea* 4507
Hamaspora benguetensis 997
purple, microbial diseases 1078
rad, *Agrobacterium radiobacter* 2756
red, microbial diseases 1078
red, resistance, *Sphaerotheca macularis* 9942
- Raspberry leaf curl virus,**
raspberry 1078
- Raspberry mosaic virus,**
raspberry 1078
- Rastrelliger kanagurta,**
gamma-irradiation preservation 4244 4245
- Rat,**
aflatoxin B1 9710
- Rat perfusion assay,**
Escherichia coli enterotoxin 4277
- Rate constant,**
microorganisms death 5821
- Ratoon stunt,**
sugarcane 2709
sugarcane, bacterium 7132
sugarcane, hot air treatment 7953
sugarcane, hot water treatment 4478
- Rauscher virus,**
velocity sedimentation + isopycnic centrifugation 1612
- Rauwolfia serpentina,**
Corynespora cassiicola 1079
- Ravenelia acaciae-arabicae,**
Acacia arabica 2728
- Ravenelia acaciae-concinnae,**
Acacia 2728
- Ravenelia acaciae-senegalae,**
Acacia senegal 2728
- Ravenelia acacicola,**
Acacia senegal 2728
- Ravenelia esculenta,**
Acacia eburnae 2728
- Ravenelia evansii,**
Acacia arabica 2728
Acacia robusta 2728
- Ravenelia mitteri,**
Indiofera pulchella 2662
- Ravenelia tandoni,**
Acacia catechu 2662
- Ravenelia taslimii,**
Acacia modesta 2728
- Ravioli,**
frozen, *Staphylococcus aureus* 2590
- Readeriella mirabilis,**
Eucalyptus 8855
- Reagin Screen test,**
syphilis 1585 1586
- Red clover mottle virus,**
preservation 10215
- Red core,**
Phytophthora fragariae, strawberry, fungicide 2807
- Red rot,**
Colletotrichum falcatum, sugarcane 7133
Heterobasidium annosum, Norway spruce 8853
Phylospora tucumanensis, sugarcane 6229 6230
Phylospora tucumanensis, sugarcane, resistance 6230
- Red stele,**
Phytophthora fragariae, strawberry 2068
- Red stele root rot,**
Phytophthora fragariae, strawberry, resistance 1989

Subject index

- cedar,
- western, decay fungi 5446
- western, *Phellinus weirii* 7232
- edox potential,
- Bacillus licheniformis*, acetic acid 8313
- Clostridium perfringens* 127
- eductase,
- Cephalosporium sacchari*, sugarcane 4347
- eduction,
- autolysis, nucleic acid, *Saccharomyces cerevisiae* protein 2435
- bacterial, anthracycline antibiotic 1383
- DL-citronellal, fungi, L-citronellol 7685
- ferric iron, *Sulfolobus acidocaldarius* 2901
- ferric iron, *Thiobacillus ferrooxidans* 2901
- ferric iron, *Thiobacillus thiooxidans* 2901
- ketone, *Saccharomyces cerevisiae*,
- alpha-hydroxy carboxylic acid/beta-hydroxy carboxylic acid derivatives 5150
- microbial, daunorubicin,
- 13-dihydrodaunorubicin 8418
- nitrous oxide, soil, acetylene 10057
- steroid, *Bacillus megaterium* 61
- steroid, *Mycobacterium phlei* 57
- steroid secodiketones, *Saccharomyces* 5102
- sulphate, *Desulfovibrio baculatus*, manganese ore 5511
- sulphur, *Spirillum* 6458
- edwood,
- decay resistance 10026
- edwood storage tank,
- drinking water, *Klebsiella*, *Enterobacter* 7498
- edworm,
- Phytophthora cinnamomi*, avocado 6240
- eed canarygrass,
- Helminthosporium catenarium* 2699
- sewage lagoon effluent irrigation, coliforms 4607
- efrigration,
- carbon dioxide snow, prepacked fish 4243
- milk 3425
- efrigrator,
- food preservation 9651
- efusal factor,
- Fusarium* toxins, animal feed 972
- ehmiellopsis abietis,
- white fir 5449
- elomycin,
- tylosin, *Streptomyces fradiae* 6662
- emanex,
- surgical hand disinfection 3920
- endering plant,
- sterilisation 9682
- endering plant system,
- sterilisation 6119
- ennelase,
- cheese 8495
- ennet,
- Absidia ramosa*, Cheddar cheese 7753
- Bacillus polymyxa* 45
- Bacillus polymyxa*, cheese 6045
- Bacillus subtilis* 45 3317
- Endothia parasitica* 45
- Endothia parasitica*, cheese 5094 5222 6045
- microbial, beer cheese 8496
- microbial, casein/cheese 923
- microbial, cheese 5094 5222 8495
- microbial, Edam cheese 7754
- microbial, rennet casein 2573
- Mucor miehei* 45
- Mucor miehei*, cheese 5094 5222 6045
- Mucor pusillus* 45
- Mucor pusillus*, cheese 5222 6045
- Mucor pusitlus*, cheese 5094
- Rhizopus oligosporus* 45
- Rhizopus*, cheese 6045
- Rhizopus oligosporus*, Cheddar cheese 5223
- ennet casein,
- microbial rennet 2573
- Rennilase,
- Mucor miehei*, cheese 8494
- Mucor miehei*, rennet casein 2573
- Rennin,
- Mucor* 9501
- Rennin-like enzyme,
- Aspergillus flavus* 3316
- Renografin density gradient centrifugation,
- Rickettsia prowazekii* 5865
- Rickettsia typhi* 5865
- Reovirus,
- aggregation, water 4869
- fruit extract 2962
- grape/grape juice/wine 4672
- sludge, sewage 2300
- Replant disease,
- Thielaviopsis basicola* + *Pratylenchus* penetrans, sweet cherry 5352
- Replica plating,
- floating loop, phage 9254
- Fusarium solani* 8295
- Schizosaccharomyces pombe*, ascospores 9297
- Thiobacillus thiooxidans*, thalious sulphide paper 2389
- Thiobacillus thioparus*, thalious sulphide paper 2389
- Replicate stamper,
- antibiotic sensitivity testing 10226
- Replicator method,
- Alcaligenes faecalis* carbon substrate utilization 10552
- Resazurin test,
- milk 7730
- Resiguard,
- Providencia stuartii* 4654
- Pseudomonas capacia* 2243
- Resin,
- fungicide, 3,5-dihalo-4-hydroxyacetophenones 8076
- ion exchange, dental caries 8252
- ion exchange, microbial amino acid adsorption 7400
- Siberian fir, antibacterial agent/antifungal agent 8094
- Resin disease,
- fungi, lodgepole pine dwarf mistletoe 4543
- Resin oligomer,
- photo-crosslinkable, microbial enzyme immobilisation 5457
- Resistance,
- Acinetobacter calcoaceticus*, gentamicin 6484
- Acinetobacter*, gentamicin 6484
- Actinomyces israelii*, antibacterial agent 7369
- Actinomyces israelii*, antibiotics 7369
- Aerobacter cloacae*, disinfectants 1192
- Agropyron intermedium*, *Puccinia striiformis* 5408
- Aerotruncum*, *Septoria tritici* 3552
- Alcaligenes odorans*, tobramycin 6656
- alfalfa, *Colletotrichum trifolii* 9925
- alfalfa, fungal crown rot 7108
- alfalfa, *Leptotrochita medicaginis* 2669
- alfalfa, *Phytophthora menasorma* 1977
- alfalfa, *Stemphylium botryosum* 2779 2780
- alfalfa, *Verticillium albo-atrum* 1841
- aminoglycoside antibiotics 3755
- antibiotic, coliforms, sewage 5473
- antibiotic, *Rhizotium* 2924
- antibiotics, *Klebsiella pneumoniae*, cefoxitin 5655
- antibiotics, *Pseudomonas aeruginosa* 10119
- apple, *Erwinia amylovora* 5743
- apple, *Gymnosporangium juniperi-virginianae* 6338
- apple, post-harvest decay, phenolic compounds 343
- apple, *Venturia inaequalis* 1899 4454 5367
- Arachnia propionica*, antibacterial agent 7369

Subject index

R factor(Contd),

- Staphylococcus aureus, aminoglycoside antibiotic resistance, aminoglycoside antibiotic nucleotidyltransferase 490
- Staphylococcus aureus, antibiotics resistance 4629
- Streptococcus agalactiae, antibiotics resistance 3672
- Streptococcus faecalis, antibiotics resistance 10121
- Streptococcus group D, antibiotics resistance 8962
- transfer inhibitor, desdanine 5730
- urinary tract infection bacteria, gentamicin resistance 6485
- Vibrio cholerae, antibiotics resistance 8951
- Yersinia pseudotuberculosis, antibiotic resistance 4638

Rabbit,

- cornea cell culture, aflatoxin B1 assay 2627
- cornea cell culture, rubratoxin B assay 2627
- feed, flavorycin 7040
- feed, spiramycin 7040
- feed, zinc-bacitracin 6103
- meat, preservation 5255
- polymorphonuclear leukocytes, Pseudomonas aeruginosa phagocytosis, antibiotics 2998

Rabies virus,

- cell culture, gentamicin 611
- disruption, vaccine 2276
- glycoprotein, isoelectrofocusing, vaccine 2278
- immunofluorescence, glycerine-preserved tissue 2400
- milk, pasteurisation 4236

Rabies virus vaccine,

- 2276 2286 4836 6664 6665
- glycoprotein, isoelectrofocusing 2278

Rabon,

- Fusarium graminearum, zearalenone 2636

Racemomycin A,

- antibiotic S15-1-A 5757
- Streptomyces lavendulae 4820

Racemomycin C,

- antibiotic S15-1-C 5757

Racemomycin-D,

- Streptomyces lavendulae 10403

Radappertization,

- food, Clostridium botulinum 9661

Radial immunodiffusion,

- Staphylococcus aureus epidermolytic toxin 4281

Radiation,

- see also Irradiation
- ionizing, Salmonella enteritidis, composted sewage sludge 7483
- preservation, Vienna sausage, Moraxella/Acinetobacter 2615
- tetracycline sterilisation 6610
- thermo-, Achromobacter aquamarinus 1277
- thermo-, Bacillus subtilis 1277
- thermo-, Staphylococcus aureus 1277
- ultraviolet, Actinomyces carminata, carminomycin 5725
- ultraviolet, air sterilisation 3734
- ultraviolet, + anthracycline antibiotics, bactericide 5747
- ultraviolet, food packaging sterilisation 9664
- ultraviolet, lamp, room air 8246
- ultraviolet, respirator nebulizer water disinfection 3918
- ultraviolet, sewage disinfection 1466
- ultraviolet, solar, Escherichia coli, wastewater 2303

gamma-Radiation,

- protease sterilisation, food additive 1781

infrared-Radiation,

- pharmaceutical glassware sterilisation 6534

Radiclonic acid,

- Penicillium 81

Radioactive labelling,

- viruses, chloramine T iodination 9300

Radioassay,

- bacteria, water 5800
- solid-phase, Staphylococcus aureus protein A 8288

Radioassay kit,

- serum folate assay, Lactobacillus casei 4952

Radioimmunoassay,

- 762 763 800 4923
- amikacin, iodine-125 5715
- bacterial endotoxin 4273
- Erucella abortus antibody 5841
- clindamycin 3788
- Clostridium botulinum antibody 3971
- iodinated tobramycin 2274
- Mycobacterium 7569
- Mycobacterium tuberculosis 7569
- netilmicin 7439
- solid-phase, rubella virus immunoglobulin G/immunoglobulin M 1609
- Staphylococcus aureus epidermolytic toxin 4281
- Staphylococcus enterotoxin A 4279
- Staphylococcus enterotoxin B, food 6156
- Staphylococcus enterotoxin, gastric juice 4278

Radioiodine,

- Staphylococcus enterotoxin A labelling 4279

Radioisotope,

- caesium, enrichment, Spicaria violacea 4987
- calcium, enrichment, Spicaria violacea 4987
- microorganisms 4924
- nitrogen fixation assay, Rhizobium lupini + lupin 8908
- thallium, enrichment, Spicaria violacea 4987

Radioisotope technique,

- Lignocellulose degradation, soil 8868

Radiolabelling,

- iodine-125-lactoperoxidase, Bordetella pertussis envelope protein 4943
- Mycobacterium leorae 3986
- Neisseria gonorrhoeae 6779

Radiometry,

- amphotericin E, antifungal agent 5694
- antibiotic sensitivity testing, Mycobacterium tuberculosis 9041
- bacteraemia 10540
- bacterial metabolism 3166
- formate oxidase, Mycobacterium 5845
- fungi 4988
- microorganisms, frozen concentrated orange juice 9608
- Mycobacterium tuberculosis, selective medium 10576
- Trichophyton mentagrophytes 4988

Radiorespirometry,

- microorganisms 4924

Radish,

- Aerobacterium tumefaciens 1942
- Fusarium oxysporum 7167
- mosaic virus 6291
- poliovirus, sewage sludge/effluent soil disposal 4561
- seed, Aspergillus flavus 1838

Radish mosaic virus,

- Brassica oleracea 6254
- radish 6291
- sodium dodecyl sulphate 2397
- turnip 7944

Ragi,

- Endomycopsis fibuligera, glucoamylase 5065
- Helminthosporium nodulosum 1943
- Helminthosporium tetramera 1944
- Helminthosporium tetramera, phenolic compound 1945 1946
- seed, Aspergillus flavus 1838
- virus disease 1849

Subject index

Resistance (Contd),

Arachnia proconionica, antibiotics 7369
 aspen, Hypoxylon mammatum 5455
 Aspergillus, heat 10114
 Avena sativa, fungal diseases 2685
 Bacillus cereus, heat 1191 6470
 Bacillus, heat, milk 8482
 Bacillus licheniformis, novobiocin 5543
 Bacillus licheniformis, penicillins, penicillinase, alkylsulphates/alkylarylsulphonates 8953
 Bacillus megaterium, chloramphenicol 8959
 Bacillus stearothermophilus, dry heat 10113
 Bacillus stearothermophilus, heat, milk 8483 8484
 Bacillus subtilis, D-cycloserine 806 8057
 Bacillus subtilis, dry heat 10113
 Bacillus subtilis, heat 4625
 Bacillus subtilis, heat, bread 7023
 bacteria, aminoglycoside antibiotics 2104 3755 10257
 bacteria, ampicillin 4721
 bacteria, antibacterial agent 4630 5877
 bacteria, antibiotics 1199 1302 2923 4629 4630 4631 4721 5525 5526 5644 5877 7295 7296 7297 8049 8946 10234
 bacteria, antibiotics/antibacterial agent 1193 1194 1198
 bacteria, antibiotics/antibacterial agent, R factor 1195 1196 1197
 bacteria, antibiotics, genetic engineering 10512
 bacteria, bactericide 10532
 bacteria, beta-lactam antibiotics, beta-lactamase 8952
 bacteria, cephalosporins 10268
 bacteria, chloramphenicol 4721
 bacteria, chloramphenicol, meat 1748
 bacteria, doxycycline 5525 5542
 bacteria, formaldehyde 5523
 bacteria, fosfomycin 8965
 bacteria, gentamicin 3758 4721 8958 10257
 bacteria, heavy metals 7293
 bacteria, neomycin, meat 1746
 bacteria, penicillins 7411
 bacteria, streptomycin 10257
 bacteria, sulphamethoxazole-trimethoprim 5550
 bacteria, tetracycline 4721 5525 5542
 bacteria, tetracycline, chicken feed 9630
 bacteria, tetracyclines 7419
 bacteria, tobramycin 8958
 Bacteroides, chloramphenicol 5540
 Bacteroides melaninogenicus, penicillin, penicillinase 7303
 Bacteroides melaninogenicus, penicillins/cephalosporins, beta-lactamase 4640
 Bacteroides oralis, penicillins/cephalosporins, beta-lactamase 4640
 Bacteroides, tetracycline 5540
 bajra, Pyricularia penniseti 1025
 barley, Erysiphe graminis hordei 7195 8627 8767
 barley, fungal diseases 2685 9928
 barley, Gaemannomyces graminis 355 356
 barley, Helminthosporium gramineum 2689
 barley, mildew 1980
 barley, Puccinia hordei 1981 1982 8768 9929
 barley, Puccinia striiformis 3476 8769
 barley, Pyrenophora teres 9777
 barley, Rhynchosporium secalis 3478
 barley, Ustilago hordei 2690
 bean, Colletotrichum lagenarium 7961
 bean, Colletotrichum lindemuthianum 3547 7961
 bean, Erwinia carotovora 258
 bean, fungi, bean proteinase inhibitor 2792
 bean, Fusarium solani 8763 8764 9926

Resistance (Contd),

bean, Parularia phaseoli 2670
 bean, Pseudomonas phaseolicola 1978
 bean, Pythium ultimum 8765
 Begonia, mildew 4456
 Begonia, Xanthomonas begoniae 4456
 benomyl, Penicillium digitatum, Citrus post-harvest decay, fungicide 4441
 benomyl, Penicillium italicum, Citrus post-harvest decay, fungicide 4441
 beta-haemolytic Streptococcus, penicillin 5633
 beta-haemolytic Streptococcus, sulchafurazole 5633
 beta-haemolytic Streptococcus, tetracycline 5633
 bile system microflora, antibiotics 2995
 black gram, Erysiphe polygori 3548
 blackcurrant, Sphaerotheca mors-uvae 4457 4458
 Botrytis cinerea, benomyl, plant protection 4626
 Botrytis cinerea, benzimidazoles, grapevine 4515
 Botrytis cinerea, benzimidazoles, plant protection 7204
 Botrytis cinerea, dicloran, plant protection 4626
 Botrytis cinerea, triadimefon, plant protection 4626
 brinjal, little leaf disease 5409 8829
 Brussels sprout, Alternaria brassicicola 9853
 Byssochlamys fulva, heat 2618 10114
 Byssochlamys nivea, heat 2618
 cabbage, Peronospora parasitica 2767 4459
 cabbage, Plasmodiophora brassicae 4460 4461
 cacao, cocoa swollen shoot virus 2731 6340
 cacao, Crinipellis perniciosa 7144
 cacao, Monilia royeri 7144
 cacao, Phytophthora palmivora 359 2731
 Candida albicans, amphotericin 5489
 Candida albicans, polyene antibiotics 565 4639
 Candida krusei, polyene antibiotics 7312
 Candida parakrusei, polyene antibiotics 7312
 Candida scottii, nystatin 5539
 Candida tropicalis, polyene antibiotics 7312
 carnation, Phialophora cinerescens 1986 9854
 carrot, Botrytis cinerea post-harvest decay 9912
 cauliflower, Plasmodiophora brassicae 4460
 cefamandole, Staphylococcus aureus beta-lactamase 1326
 cefazolin, Staphylococcus aureus beta-lactamase 1326
 cefoxitin, Staphylococcus aureus beta-lactamase 1326
 cephalosporin antibiotic SK & F 59962, Staphylococcus aureus beta-lactamase 1326
 Cercospora beticola, benomyl, sugarbeet 5389 9981
 Cercosporidium personatum, benzimidazole, plant protection 7204
 cereal, fungal diseases 2685
 chilli, chilli leaf-curl virus 4462
 chilli, chilli mosaic virus 4462
 chilli, pepper vein mottle virus 5410
 Chromobacterium violaceum, penicillins/cephalosporins, beta-lactamase 3673
 Citrobacter, antibiotics 4632
 Citrobacter freundii/Citrobacter diversus, antibiotics 7370
 Citrus, Phoma tracheiphila 9833
 Clostridium botulinum, heat, tomato juice 9687
 Clostridium perfringens, lincomycins 1238
 coffee, Colletotrichum coffeanum 7952

Subject index

Resistance(Contd),

coliform, antibiotic, R factor, sewage treatment 2305
 coliforms, antibiotics 1200
 coliforms, antibiotics, food 4633
 coliforms, food, antibiotics 6028
 Colletotrichum coffeanum, fungicide, coffee 2921
 corn, Colletotrichum graminicola 6216 6218 6332
 corn, Diplodia zeae 6406
 corn, disease 2783
 corn, Erwinia stewartii, inoculation technique 9784
 corn, Fusarium graminearum 6406
 corn, Fusarium moniliforme 6406
 corn, Helminthosporium carbenum 5325
 corn, Helminthosporium maydis 1983 7197
 corn, Helminthosporium turcicum 2781 5407 7198
 corn, maize chlorotic dwarf virus 6212
 corn, maize dwarf mosaic virus 5322 5407 6212
 corn, Nigrospora oryzae 6406
 corn, Puccinia sorghi 2694 2782
 corn, Ustilago maydis 2783 9930
 corn, Ustilago zeae 5407
 cotton, blue disease 7953 9938
 cotton, Diplodia gossypina 8688
 cotton, Fusarium 1923
 cotton, Fusarium oxysporum 8688
 cotton, Verticillium 1923
 cotton, Xanthomonas malvacearum 4463 4464 7913
 cowpea, Cercospora canescens 5405
 cowpea, Cercospora cruenta 5405 6188
 cowpea, Colletotrichum lindemuthianum + Cercospora cruenta + Uromyces vignae + Xanthomonas + Corynespora cassiicola + cowpea mosaic virus 7194
 cowpea, cowpea yellow mosaic virus 5404
 crabapple, microbial diseases 3553
 cucumber, cucumber mosaic virus 7150
 cucumber, Fusarium oxysporum 7955
 cucumber, Pseudomonas lachrymans 3556
 cucumber, Pseudoperonospora cubensis 4466
 Digitaria, Pyricularia grisea 4448
 Diplococcus pneumoniae, tetracycline 4631 4647
 dry heat, Bacillus subtilis 8048
 dry-heat, Bacillus subtilis, sporulation medium 6769
 eastern cottonwood, Marssonina brunnea 5456
 eastern cottonwood, Melampsora medusae 5456
 eastern cottonwood, Septoria 5457
 elm, Ceratocystis ulmi 3620 8854
 enteric bacteria, tetracycline 10130
 Enterobacter aerogenes, ampicillin, cephalosporinase 9372
 Enterobacter aerogenes, cephalosporin, cephalosporinase 9372
 Enterobacter, antibiotics 4632 4634
 Enterobacter, cefazolin 7402
 Enterobacter cloacae, antibiotics 2993
 Enterobacter, gentamicin 6484
 Enterobacteriaceae, ampicillin 4767
 Enterobacteriaceae, mecillinam 4767
 Enterobacteriaceae, pyocin P1 7447
 Enterobacteriaceae, sulphadiazine, antibiotics 8945
 Erwinia amylovora, streptomycin, apple/pear 2822
 Escherichia coli, aminoglycoside antibiotics, aminoglycoside 3-phosphotransferase II 6483
 Escherichia coli, aminoglycoside antibiotics, aminoglycoside-phosphotransferase 8351
 Escherichia coli, ampicillin 1205 3676
 Escherichia coli, antibiotics 2993 3671 4632 6474 6475 7368
 Escherichia coli, antibiotics, chicken 8947

Resistance(Contd),

Escherichia coli, antibiotics, pig carcass 7299
 Escherichia coli, antibiotics, polyamine 2098
 Escherichia coli, antibiotics, R factor, tetracycline 6490
 Escherichia coli, antibiotics, R factor transfer, pipemicid acid 3670
 Escherichia coli, cephaloridine 8050
 Escherichia coli, chloramphenicol 8050
 Escherichia coli, chloramphenicol, chloramphenicol acetyltransferase, R factor 8960
 Escherichia coli, chlorpromazine 6471
 Escherichia coli, chlortetracycline 5541 8954
 Escherichia coli, disinfectants 1192
 Escherichia coli, doxycycline 5542
 Escherichia coli, doxytetracycline 7313
 Escherichia coli, food, antibiotics 6028
 Escherichia coli, gentamicin 8050
 Escherichia coli, gentamicin/tobramycin/carbenicillin, R factor 8052
 Escherichia coli, kanamycin 8050
 Escherichia coli, mercury 8050
 Escherichia coli, oxytetracycline 1210
 Escherichia coli, penicillin 3676
 Escherichia coli, penicillin, penicillin-binding proteins 6847
 Escherichia coli, penicillins, beta-lactamase, R factor 8954
 Escherichia coli, proflavine/penicillin 2101
 Escherichia coli, rifampicin 8054 9100 10126
 Escherichia coli, streptomycin 1194 8050 8956 8957
 Escherichia coli, tellurite/tellurate, plasmid 3668
 Escherichia coli, tetracycline 5542 7313 8050 10130
 Escherichia coli, tetracycline, lipid 7314
 Escherichia coli, trimethoprim + sulphamide 3669
 estuarine water bacteria, antibiotics 3136
 Fisher lymphadenosis, antitumour antibiotic resistance 9120
 flax, Melampsora lini 360
 flax, Oidium lini 1987
 flax, Rhizoctonia solani 8693
 forest tree, microbial diseases 5445
 Francisella tularensis, erythromycin 1305
 Francisella tularensis, oleandomycin 1305
 Francisella tularensis, polymyxin 1305
 fungi, carboxin 5001
 fungi, chloroneb 5001
 fungi, cycloheximide 5001
 fungi, formaldehyde 5523
 fungi, fungicide 5001
 fungi, fungicide, paper 468
 fungi, fungicide, plant protection 3667
 fungi, imazalil 5001
 fungi, oligomycin 5001
 fungi, pimaricin 5001
 fungi, triadimefon, plant protection 3572
 fungi, triarimol, plant protection 3572
 fungi, triforine, plant protection 3572
 Fusobacterium necrophorum, antibiotics 10243
 general, plant, microbial disease 5403
 gram, Ascochyta rabiei 2675
 Haemophilus influenzae, ampicillin 7412 8114 9082 9083 10292
 Haemophilus influenzae, ampicillin, beta-lactamase 5531
 Haemophilus influenzae, ampicillin, beta-lactamase testing 2103
 Haemophilus influenzae, ampicillin, penicillinase paper strip test 9266
 Haemophilus influenzae, antibiotics, cryptic plasmids 10117

Subject index

Resistance (Contd),

Haemophilus influenzae, antibiotics, R factor 10118
 Haemophilus influenzae, chloramphenicol 6487
 Haemophilus influenzae, penicillins, penicillinase assay 1203
 Haemophilus influenzae, tetracycline 6487 8114
 Haemophilus parainfluenzae, ampicillin 8115
 Haemophilus parainfluenzae, tetracycline 8115
 Haemophilus paraphrophilus, ampicillin 3675
 hardwoods, Lenzites trabea 420
 heat, Bacillus coagulans, tomato juice 970
 heat, Bacillus stearothermophilus, water activity 6989
 heat, Bacillus, ultrasonic treatment 211
 heat, bacteria, scalding tank water 1530
 heat, microorganisms, apparatus 10112
 heat, microorganisms, food, thermal death time pouch 3397
 heat, orange juice microflora 222
 Herellea, gentamicin 6484
 Herellea vaginicola, gentamicin 6484
 herpesvirus, idoxuridine 10185
 Hordeum vulgare, fungal diseases 2685
 hospital intensive care unit bacteria, antibiotics 3916
 influenza virus, amantadine, genetic marker 10115
 intestinal bacteria, antibiotics, R factor 7298
 Italian millet, Uromyces setariae-italica 3421
 Kentucky bluegrass, Ustilago striiformis 6211
 Klebsiella aerogenes, penicillins/cephalosporins, beta-lactamase, R factor 10122
 Klebsiella, antibiotics 4632 4634 6474 7368
 Klebsiella, cefazolin 7402
 Klebsiella, doxycycline 7313
 Klebsiella, gentamicin 5526 6484
 Klebsiella, gentamicin/tobramycin/carbenicillin, R factor 8052
 Klebsiella pneumoniae, antibiotics 2993
 Klebsiella pneumoniae, cefoxitin 1202
 Klebsiella pneumoniae, cephalothin 1202
 Klebsiella pneumoniae, disinfectants 1192
 Klebsiella pneumoniae, gentamicin 6485 6486
 Klebsiella pneumoniae, mercury + antibiotics, R factor 8944
 Lactobacillus fermenti, penicillin, acriflavine 1204
 lettuce, Bremia lactucae 4467 4468 7956
 lilac, Microsphaeria alni 8704
 loblolly pine, Cronartium fusiforme 3610
 Lycopersicon, Fusarium oxysporum 6310
 Macroptilium bracteatum, potato virus Y 5305
 Macroptilium bracteatum, Uromyces appendiculatus 5305
 Macroptilium lathyroides, potato virus Y 5305
 Macroptilium lathyroides, Uromyces appendiculatus 5305
 mastitis bacteria, antibiotics 10116
 Medicago, Leptotrochita medicaginis 2669
 melon, Erwinia tracheiphila 3557
 melon, Pseudoperonospora cubensis 4466 9874
 Micromonospora purpurea, streptomycin, gentamicin 9092
 microorganisms, antibiotic mixture assay 2990
 microorganisms, antibiotics 4628
 microorganisms, cyanide 2536
 microorganisms, heat, canned meat 5157
 microorganisms, irradiation 1276
 millet, Panicum mosaic virus-St. Augustine decline strain 6333

Resistance (Contd),

muskmelon, Fusarium oxysporum 2748
 Mycobacterium kansasii, rifampicin 4645
 Mycobacterium marinum, chlorine, swimming pool water 2331
 Mycobacterium, rifampin 8055
 Mycobacterium smegmatis, streptomycin + tuberactinomycin + kanamycin + capreomycin 6481
 Mycobacterium tuberculosis, kanamycin/capreomycin/resistance 7307
 Mycobacterium tuberculosis, rifampicin 7309
 Mycobacterium tuberculosis, viomycin + capreomycin + emivomycin + kanamycin + lividomycin + paromomycin, isoniazid 6482
 Mycosphaerella berkeleyi, benzimidazole, plant protection 7204
 Neisseria gonorrhoeae, gentamicin 5527
 Neisseria gonorrhoeae, oxytetracycline 5527
 Neisseria gonorrhoeae, penicillin 5527 9084
 Neisseria gonorrhoeae, penicillin G/tetracycline/smoxycillin/actinomycin D/streptomycin 2099
 Neisseria gonorrhoeae, penicillin, beta-lactamase 2051
 Neisseria gonorrhoeae, penicillin, beta-lactamase, R-factor 6478
 Neisseria gonorrhoeae, penicillin, penicillinase paper strip test 9266
 Neisseria gonorrhoeae, streptomycin 5527
 Neisseria gonorrhoeae, sulphamethoxazole 5527
 Neisseria meningitidis, sulphonamide 4724
 Nicotiana glutinosa, tobacco mosaic virus, Dahlia leaf extract 3590
 oat, Drechslera avenae, saponins 277
 oat, Erysiphe graminis avenae 5334 7949 8770
 oat, fungal diseases 2685
 oat, Puccinia coronata 4449 7199 9933
 oat, Ustilago avenae 1877
 oat, Ustilago kollerii 7994
 Oidium, benzimidazole, plant protection 7204
 okra, okra yellow vein mosaic virus 4469
 olive, Verticillium dahliae 9876
 Pasteurella haemolytica, penicillin 3747
 Pasteurella haemolytica, Streptomycin 3747
 Pasteurella haemolytica, Streptomycin/penicillin/tetracycline 3747
 Pasteurella haemolytica, tetracycline 3747
 Pasteurella multocida, penicillin 3747
 Pasteurella multocida, Streptomycin 3747
 Pasteurella multocida, Streptomycin/penicillin/tetracycline 3747
 Pasteurella multocida, tetracycline 3747
 Pasteurella pestis, penicillin G, penicillinase, R factor 5532
 pea, Erysiphe polygoni 2677
 pea, Fusarium oxysporum 1011
 pea, Peronospora pisi 4470
 peach, Taphrina deformans 8774
 peanut, Aspergillus flavus 1014
 peanut, Cercospora arachidicola 1979
 peanut, Cylinodrocladium rotalariae 8766
 peanut, disease 2776 2777
 pear, Erwinia amylovora 3554 8775
 pearl millet, Sclerospora graminicola 2784
 Penicillium digitatum, benzimidazole, plant protection 7204
 Penicillium italicum, benzimidazole, plant protection 7204
 pepper, curly top virus 9939
 pepper, tobacco etch virus 8776
 phasey bean, Erysiphe polygoni 2775
 Philodendron, microbial diseases 4471
 phytopathogenic fungi, fungicides 376 2001
 pigeon pea, Mycovellotiella cajani 6331
 pimento, Verticillium albo-atrum 9940
 pine, Fomes annosus 2837
 pine, Lophodermium pinastri 1140 1154
 plant, microbial disease 354 4447 9923

Subject index

Resistance(Contd),

plants, *Alternaria alternata* tentoxin 9721
 plants, microbial disease 1092 3455 3546
 4C26 5G1C 6B1C 8762 9924
 plants, *Verticillium dahliae* 254
 plum, *Monilia* 4455
 polyanion-induced, tobacco, tobacco mosaic virus 1994
 poplar, *Melampsora allii-populina* 3621
 poplar, *Melampsora larici-populina* 3621
 poppy, microbial disease 3520
 potato, *Cercospora colanituberosi* 7957
 potato, *Erwinia carotovora* 9941
 potato, *Erwinia carotovora* post-harvest decay 3543
 potato, *Fusarium solani* 8758
 potato, *Phytophthora infestans* 2754 3558 6342
 potato, potato virus M 8715
 potato, potato virus X 1986
 potato, *Rhizoctonia solani* 4409
 potato, *Streptomyces scabies*, chlorogenic acid/chloroquinoplast 1975
 potato, *Synchytrium endobioticum* 3559 3560
 potato, *Verticillium dahliae* 7166
 Proteus, antibiotics 2993 4632
 Proteus, colistin 10129
 Proteus, doxycycline 7313
 Proteus, gentamicin 6484
 Proteus hauseri, antibiotics 10244
 Proteus, beta-lactam antibiotics 9049
 Proteus mirabilis, antibiotics 4634
 Proteus morganii, cephalosporins, cephalosporinase 6879
 Proteus morganii, penicillins, cephalosporinase 6879
 Proteus rettgeri, antibiotics 1201
 Proteus rettgeri, gentamicin/tobramycin 4643
 Proteus, rifampicin 910C
 Proteus, tetracycline 7313 10130
 Providencia, antibiotics 2993
 Providencia stuartii, antiseptics 4654
 Providencia stuartii, disinfectants 4654
 Pseudomonas aeruginosa 7368
 Pseudomonas aeruginosa, aminoglycoside antibiotic 1206
 Pseudomonas aeruginosa, antibiotics 2926 2593 4632 4634 6550
 Pseudomonas aeruginosa, antibiotics, R factor transfer, pipemidic acid 3670
 Pseudomonas aeruginosa, carbenicillin, beta-lactamase 7634
 Pseudomonas aeruginosa, carbenicillin, plasmid 10123
 Pseudomonas aeruginosa, carbenicillin, R factor 7306
 Pseudomonas aeruginosa, disinfectants 1192
 Pseudomonas aeruginosa, gentamicin 5537 6484
 Pseudomonas aeruginosa, gentamicin, R factor 7306
 Pseudomonas aeruginosa, heavy metals + antibiotics 7294
 Pseudomonas aeruginosa, penicillins, beta-lactamase 2102
 Pseudomonas aeruginosa, quaternary ammonium compound, electron microscopy 2096
 Pseudomonas aeruginosa, rifampicin 9100
 Pseudomonas aeruginosa, streptomycin 3782
 Pseudomonas aeruginosa, tellurite/tellurate, plasmid 3668
 Pseudomonas aeruginosa, tobramycin 1211
 Pseudomonas, antibiotic/mercury/silver nitrate 2097
 Pseudomonas, antibiotics, R factor 5528
 Pseudomonas, carbenicillin, R factor 5528
 Pseudomonas diminuta, tobramycin 6656
 Pseudomonas, gentamicin 6484
 Pseudomonas, mercury, R factor 5528
 Pycnicaria oryzae, kasugamycin, blasticidin S 8966

Resistance(Contd),

ragi, *Helminthosporium tetramera*, phenolic compound 1945 1946
 rapeseed, *Alternaria brassicae* 4412
 red clover, *Colletotrichum trifolii* 9927
 red oak, *Ceratocystis fagacearum* 8859
 reo raspberry, *Sphaerotheca macularis* 9942
 redwood, fungal decay 1C026
 Rhizobium, antibiotics, + *Lotus pedunculatus*, modulation, nitrogen fixation 10067
 Rhizobium, fungicide, legume seed treatment 7273
 Rhizobium trifolii, streptomycin, subterranean clover 5493
 rice, *Pyricularia oryzae* 2706 2785 4341 4342
 rice, rice yellow dwarf virus 9931
 rice, *Ustilagoidea vires* 2703
 rice, *Xanthomonas oryzae* 1984 2703 6335 9932
 rose, blackspot/powdery mildew/rust 4473
 rose, *Diplocarpon rosae* 102C
 rose, mildew 1096 4472
 rose, powdery mildew 4474 6343
 rye, *Puccinia dispersa* 1093
 rye, *Puccinia graminis secalis* 358 1093
 safflower, *Phytophthora drechsleri* 8726
 sainfoin, *Fusarium solani* 7200
 Salmonella, antibiotics 13:7 4535 6475 6476 7300 8948
 Salmonella, antibiotics, chicken 7301
 Salmonella, antibiotics, R factor 8949
 Salmonella, chloramphenicol 8163
 Salmonella enteritidis, antibiotics 2993
 Salmonella minnesota, pyocin P1 7447
 Salmonella saint-paul, antibiotics 6475
 Salmonella, sulphathiazole 6476
 Salmonella typhi, antibiotics 4535 5529
 Salmonella typhi, antibiotics, ampicillin/sulphamethoxazole-trimethoprim 7377
 Salmonella typhi, antibiotics, polyamine 2098
 Salmonella typhi, chloramphenicol 4635
 Salmonella typhimurium, antibiotics 6477 10246
 Salmonella typhimurium, chloramphenicol + ampicillin + streptomycin + sulphonamide + tetracycline 4642
 Salmonella typhimurium, chlortetracycline turkey feed 7041
 Sclerotinia fructicola, benzimidazole, plant protection 7204
 Scots pine, *Lophodermium pinastri* 1128 1140 1141 1142 1144 1154
 Septoria apii, benzimidazole, plant protection 7204
 Septoria apicola, benzimidazole, plant protection 7204
 Septoria passiflorae, benomyl, passionfruit 7214
 Septoria passiflorae, benzimidazole, plant protection 7204
 Serratia marcescens, antibiotics 2993
 Serratia marcescens, carbenicillin 4743
 Serratia marcescens, gentamicin 4743
 Serratia marcescens, gentamicin/tobramycin/carbenicillin, R factor 8052
 Serratia marcescens, netilmicin 4743
 Serratia marcescens, penicillins/cephalosporins, beta-lactamase 3674
 sewage *Achromobacter*, antibiotics + inorganic metals 2925
 sewage *Enterobacteriaceae*, antibiotics + inorganic metals 2925
 Shigella, antibacterial agent 5524
 Shigella, antibiotics 10126
 Shigella dysenteriae, ampicillin/chloramphenicol/streptomycin/tetracycline/sulphadiazine 487

Subject index

Resistance(Contd),

Shigella dysenteriae, ampicillin, R-factor 6479
Shigella dysenteriae, antibiotics 10120
Shigella sonnei, antibiotics 5530
Shigella sonnei, nalidixic acid, R factor 8979
Shigella sonnei, streptomycin 6480
 slash pine, *Cronartium fusiforme* 2040
Solanum tuberosum, *Synchytrium endobioticum*, Glynn-Lumberzahl method 328
Sorghum bicolor, *Sclerospora sorghi* 287
 soybean, *Microspasma diffusa* 8616
 soybean, peanut mottle virus 2778
Sphaerotheca fuliginea, benzimidazole, plant protection 7204
 spinach, *Peronospora farinosa* 7958
Staphylococcus aureus, antibiotics 1308 4632 4636 4637 7368 8119
Staphylococcus aureus, aminoglycoside antibiotic 1207
Staphylococcus aureus, aminoglycoside antibiotic, aminoglycoside antibiotic nucleotidyltransferase 490
Staphylococcus aureus, antibiotics 3002 6475 7302 8119
Staphylococcus aureus, antitumour antibiotic resistance 9120
Staphylococcus aureus, arsenate 5533
Staphylococcus aureus, cadmium 5533
Staphylococcus aureus, cefoxitin 1202
Staphylococcus aureus, cephalosporins, beta-lactamase 5535
Staphylococcus aureus, cephalosporins, penicillinase 7372
Staphylococcus aureus, cephalothin 1202 5534
Staphylococcus aureus, chlortetracycline 5541 8964
Staphylococcus aureus, disinfectants 1192
Staphylococcus aureus, doxycycline 2105
Staphylococcus aureus, doxytetracycline 7313
Staphylococcus aureus, erythromycin 5533
Staphylococcus aureus, erythromycin A 7310 7311
Staphylococcus aureus, fusidic acid 2927
Staphylococcus aureus, gentamicin 489 3677 5538
Staphylococcus aureus, gentamicin, aminoglycoside acetyltransferase/aminoglycoside phosphotransferase 10125
Staphylococcus aureus, gentamicin/tobramycin/amikacin 4644
Staphylococcus aureus L-form, antibiotics 3750
Staphylococcus aureus, macrolide antibiotics 7310 7311
Staphylococcus aureus, mercury 5533
Staphylococcus aureus, methicillin 488 1367 2169 3032
Staphylococcus aureus, methicillin, antibiotic sensitivity testing 10124
Staphylococcus aureus, methicillin, beta-lactamase 5535
Staphylococcus aureus, minocycline 2105
Staphylococcus aureus, penicillin 5533 7305
Staphylococcus aureus, penicillin, penicillinase 7304
Staphylococcus aureus, penicillinase 7372
Staphylococcus aureus, penicillins 4631 5534
Staphylococcus aureus, penicillins, beta-lactamase 5535
Staphylococcus aureus, penicillins, penicillinase 7372
Staphylococcus aureus, penicillins, penicillinase assay 1203
Staphylococcus aureus, tetracycline 2105 7313
Staphylococcus aureus, tetracyclines 8963

Resistance(Contd),

Staphylococcus epidermidis, aminoglycoside antibiotics, tobramycin adenylyltransferase 6491
Staphylococcus epidermidis, antibiotics 8119
Staphylococcus erythromycin 4541
Staphylococcus hyicus, antibiotics 3002 9045
Staphylococcus methicillin 8955
Staphylococcus penicillin 4641
Staphylococcus penicillins, penicillinase, alkylsulphates/alkylarylsulphonates 8953
Staphylococcus rifampicin 1100
 strawberry, *Alternaria alternata*, phenolic compounds 1952
 strawberry, *Phytophthora fragariae* 1989
 strawberry, *Pythium irregulare*, phenolic compounds 1952
 strawberry, *Rhizoctonia solani*, phenolic compounds 1952
Streptococcus agalactiae, antibiotics, R factor 3672
Streptococcus, antibacterial agent 3751
Streptococcus, antibiotics 3751 7368
Streptococcus cremoris, cheese, cheese 5218 5219
Streptococcus faecalis, antibiotics 8950
Streptococcus faecalis, antibiotics, R factor 10121
Streptococcus faecalis, chloramphenicol, chloramphenicol acetyltransferase 8961
Streptococcus faecalis, erythromycin 10127
Streptococcus faecalis, lincomycin 10127
Streptococcus group A, tetracycline 4646 4647
Streptococcus group B, penicillin G 602
Streptococcus group B, tetracycline 3194
Streptococcus group D, antibiotics 7368
Streptococcus group D, antibiotics, k factor 8962
Streptococcus group D, doxytetracycline 7313
Streptococcus group D, sulphamethoxazole-trimethoprim 6472
Streptococcus group D, tetracycline 7313
Streptococcus haemolyticus, chloramphenicol, chloramphenicol acetyltransferase 8961
Streptococcus lactis, phage, cheese 5219
Streptococcus pneumoniae, chloramphenicol, chloramphenicol acetyltransferase 8961
Streptococcus pyogenes, erythromycin + lincomycin 10128
Streptococcus, tetracycline 4631
Streptomyces coelicolor, chloramphenicol 6488 8053
Streptomyces griseus, chloramphenicol, chloramphenicol acetyltransferase 6882
 sugarbeet, *Cercospora beticola* 2788
 sugarbeet, *Rhizoctonia solani* 1254 1990
 sugarcane, *Gibberella moniliformis* 8771
 sugarcane, *Phytophthora tucumanensis* 6230
 sugarcane, ratoon stunting 2709
 sugarcane, *Ustilago scitaminea* 3549 6336
 sugarcane, *Xanthomonas albilineans* 3549
 sunflower, fungal diseases 9943
 sunflower, *Plasmopara halstedii* 6344
 sweet potato, *Fusarium oxysporum* 2760 8777
 testing, alfalfa, *Colletotrichum trifolii* 6328
 testing, Brassica, *Plasmidiophora brassicae* 6339
 testing, corn, maize dwarf mosaic virus 7196
 testing, cotton, *Verticillium dahliae* 4465
 testing, pea, *Fusarium oxysporum* + *Aphanomyces euteiches* 6329
 testing, pigeonpea, sterility mosaic 6330
 testing, soybean, *Phytophthora megasperma* 4475 7116
 testing, tomato, *Pyrenochaeta lycopersici* 361
Tilletia foetida, hexachlorobenzene, plant protection 7204

Subject index

Resistance(Contd),

- tobacco, *Peronospora tabacina* 8778
 - tobacco, *Phytophthora nicotianae* 9945
 - tobacco, *Pseudomonas solanacearum* 9944
 - tobacco, *Thielaviopsis basicola* + tobacco mosaic virus + wildfire 4477
 - tobacco, tobacco mosaic virus 4476
 - tobacco, tobacco necrosis virus 4476
 - tomato, *Alternaria* 9946
 - tomato, *Alternaria solani* 8780
 - tomato, *Cladosporium* 9946
 - tomato, *Corynebacterium michiganense* 1991 8779 9902
 - tomato, *Fusarium oxysporum* 3561 6310 7959 8781 9946
 - tomato, *Fusarium oxysporum*, *Meloidogyne incognita* 1992
 - tomato, *Fusarium oxysporum*, *Pseudomonas solanacearum* 9948
 - tomato, *Pythium aphanidermatum* 1086
 - tomato, *Rhizoctonia* 8782
 - tomato, *Rhizoctonia* post-harvest decay 9922
 - tomato, *Stemphylium* 9946
 - tomato, tobacco mosaic virus 5411 7941 9946
 - tomato, tobacco mosaic virus 2761
 - tomato, *Verticillium* 9946
 - tomato, *Verticillium albo-atrum*, phenolic compounds 237
 - Triticeae, *Gaeumannomyces graminis* 355
 - Triticum aestivum, fungal diseases 2685
 - turfgrass, snow mould 1872
 - turkey faeces bacteria, oxytetracycline feed 7042
 - Ureaplasma urealyticum, antibiotics 5626
 - urinary tract infection bacteria, gentamicin 6485
 - Venturia inaequalis, benzimidazole, apple 798
 - Venturia inaequalis, benzimidazole, plant protection 7204
 - Venturia pirina, benzimidazole, plant protection 7204
 - Verticillium albo-atrum 9940
 - Vibrio cholerae, antibiotics 9046
 - Vibrio cholerae, antibiotics, R factor 8951
 - Vibrio cholerae, antibiotics, Vibrio cholerae, antibiotic resistance 2100
 - Vibrio cholerae, tetracycline, isolation medium 1209
 - viruses, formaldehyde 5523
 - watermelon, *Fusarium oxysporum* 3562
 - wheat, *Alternaria alternata* 1888
 - wheat, *Alternaria trititica* 7950
 - wheat, *Claviceps purpurea* 4450
 - wheat, *Erysiphe graminis hordei* 9934
 - wheat, *Erysiphe graminis tritici* 1094 1095 3550 4451 4452 5336 5337
 - wheat, fungal diseases 2685
 - wheat, *Puccinia graminis tritici* 1985 2786 3551 7951 8655 8772 8773 9933
 - wheat, *Puccinia recondita* 1985 7135 8773
 - wheat, *Puccinia recondita tritici* 293 3551 9811 9933 9945
 - wheat, *Puccinia striiformis* 5408
 - wheat, *Septoria nodorum* 8656 9936
 - wheat, *Septoria tritici* 3552 9814 9937
 - wheat, *Typhula idahoensis* 6337
 - wheat, *Urocystis agropyri* 2715 4453
 - wheat, *Urocystis tritici* 1897 2716
 - Yersinia enterocolitica, heat, skim milk 9540
 - Yersinia pseudotuberculosis 4639
- ## Resistoflavin,
- Actinomyces resistomycificus* 1186
- ## Resmethrin,
- Erysiphe cichoracearum*, cucumber 4500
 - Erysiphe cichoracearum*, Zinnia 4500
 - Erysiphe lanerstroemiae*, crapemyrtle 4500
 - Erysiphe polygoni*, coupea 4500
 - Phytophthora infestans*, potato 4501

Resmethrin(Contd),

- Sphaerotheca humuli*, *Kalanchoe blossfeldiana* 4500
 - Sphaerotheca pannosa*, rose 4500
- ## Respiration,
- bacterial, electrode monitoring 3953
 - bacterial, respirometer 6712 6713
 - black spruce soil microflora, urea 2830
- ## Respirator,
- hygiene 4895
 - nebulizer water, disinfection, ultraviolet radiation 3918
- ## Respirator aerosol sampler,
- bacteria 10490
- ## Respiratory apparatus,
- microorganisms, hygiene 9230
- ## Respiratory equipment,
- automatic disinfection cabinet, formaldehyde + ammonia 4896
- ## Respiratory syncytial virus,
- preservation 9016
- ## Respirometer,
- bacterial respiration 6712 6713
 - electrolytic, wastewater 6684
- ## Respirometry,
- activated sludge bacteria 3849
- ## Restoration,
- yeast, dessication 3739
- ## Restriction endonuclease,
- Bacillus stearothermophilus* 5062
 - Escherichia coli* 7621
 - Haemophilus influenzae* 3267
- ## Resveratrol,
- grapevine, *Botrytis cinerea* 1932
- ## Retacel,
- Cercospora herpotrichoides*, wheat 8797
- ## Reticulitermes hesperus,
- bacteria, mesquite 822
- ## Retorting tray,
- packaged food sterilisation 5252
- ## Reverse osmosis,
- lactic acid, lactose fermentation liquor, whey 8491
- ## RH 3928,
- Sphaerotheca fuliginea*, cucumber 4491
- ## RH-893,
- Rhizoctonia solani*, cauliflower 1103
- ## Rhabdovirus,
- Pittosporum tobira* vein yellowing disease 3519
- ## Rhamnopyranosyl-lipid,
- Pseudomonas*, paraffin, activated sludge 3665
- ## Rhamnose,
- Yersinia enterocolitica* lipopolysaccharide 6935
- ## L-Rhamnose dehydrogenase,
- Pullularia pullulans* 1677
- ## Rheology,
- non-Newtonian fermentation broth 90
- ## Rheum rhaponticum,
- Erwinia rhapontici* 8724
- ## Rhinocladella,
- sugar maple 8856
- ## Rhinocladella mansonii,
- polysaccharide 5985
- ## Rhinovirus,
- 3-deazaguanine/3-deazaguanosine/3-deazaguanyl acid 10183
 - hexachlorophene + povidone-iodine + ethanol, bronchofiberscope disinfection 5807
 - N-phenyl-N-arylthiourea derivatives 8998
 - theophylline derivatives 8091
 - thiadiazole derivatives 8087
- ## Rhizidiomycopsis japonicus,
- fungal oospore parasite, soil 8881
- ## Rhizina inflata,
- Norway spruce 8853
- ## Rhizobium,
- 3155
 - + alfalfa 4581

Subject index

Rhizobium(Contd),

- + alfalfa, nitrogen fixation 5488 5489
- + alfalfa, nodulation, polygalacturonase 7648
- + *Aspalathus linearis*, nodulation, nitrogen fixation 8028
- + axillaris, nodulation 446
- + bean, nitrogen fixation 447
- + bean, nitrogen fixation, proteins 2883
- + black gram, nodulation, nitrogen fixation 7275
- + broad bean, nitrogen fixation 8903
- + broad bean, nitrogen fixation, pesticides 6443
- + Caesalpinioideae, nodulation, nitrogen fixation 8900
- + chickpea, nitrogen fixation 4582
- + chickpea, nitrogen fixation, nodulation 6444
- + chickpea, nodulation, nitrogen fixation 8029
- + clover, nitrogen fixation 5488
- + clover, nitrogen fixation, acetylene reduction assay 7272
- + cowpea, nitrogen fixation 4587 8911 10066
- + cowpea, nitrogen fixation, nitrogenase 5494
- + cowpea nodule protoplasts, nitrogen fixation 4588
- + fungicide, soybean seed treatment 10070
- + Glycine wightii seed 8904
- + gram, nitrogen fixation, nodulation, soil treatment 5496
- + gram, nodulation, nitrogen fixation 5495
- + gram, soil microorganisms 3646
- + green gram, nodulation, nitrogen fixation 7275
- + horse bean, nitrogen fixation 448
- + Ipomoea tricolor, nitrogen fixation 10063
- + jack bean 4581
- + legume lectins, nitrogen fixation 8899
- + legume, nitrogen fixation 2077 2080 2413 2875 4580 5872
- + legume, nitrogen fixation, glutamine synthetase 8026
- + legume/seed treatment 445
- + Lotononis bainesii, nitrogen fixation 8905
- + Lotus corniculatus, nodulation, nitrogen fixation 8907 9806
- + Lotus hispidus, nodulation, nitrogen fixation 9806
- + lupin 4581
- + Lupinus angustifolius, nitrogen fixation 10069
- + Lupinus angustifolius, nodulation 10068
- + Macroptilium atropurpureum, nitrogen fixation, nitrate 8027
- + Mimosoideae, nodulation, nitrogen fixation 8900
- + mung bean, antifungal agent 3649
- + mung, nitrogen fixation, proteins 2883
- + Nemisia strumosa, nitrogen fixation 10067
- + Papilionoideae, nodulation, nitrogen fixation 8900
- + pea 4581
- + pea, glycine/D-norvaline 4592
- + pea, nodulation/nitrogen fixation 4591
- + peanut, nitrogen fixation 4582
- + Petunia hybrida, nitrogen fixation 10063
- + pigeon pea, nitrogen fixation 4582
- + Portulaca grandiflora, nitrogen fixation 10063
- + red clover 4581
- + ryegrass, nitrogen fixation, acetylene reduction assay 7272
- + sainfoin, nitrogen fixation 8910
- + Siratro, nodulation 446
- + soybean 4593
- + soybean, nitrogen fixation 452 2083 2891 3651 8911

Rhizobium(Contd),

- + soybean, nitrogen fixation, rhizosphere oxygen 7276
 - + soybean, nitrogen fixation, soil water 4595
 - + soybean, nitrogen fixation, urea 7277
 - + soybean, nodulation/nitrogen fixation 3650
 - + Stylosanthes guyanensis, nodulation/nitrogen fixation 2084 8907 9806
 - + Stylosanthes humilis, nodulation, nitrogen fixation 9806
 - + subterranean clover seed 8904
 - + sunnhemp, nodulation, nitrogen fixation 7275
 - + tobacco, nitrogen fixation 2076
 - + winged bean, nodulation/nitrogen fixation 4583
 - antibiotic resistance 2924
 - antibiotics-resistant, + Lotus pedunculatus, nodulation, nitrogen fixation 10067
 - antifungal agent 3649
 - black gram, rhizosphere streptomycetes 2881
 - carrier, filter mud 2879
 - coal-bentonite base carrier 2074
 - cowpea, seed dressing fungicide 2029
 - desiccation, montmorillonite 6441
 - fennel, nodulation, subamycin 2886
 - fennel seed 4589
 - fungicide resistance, legume seed treatment 7273
 - glycine 4592
 - green gram, rhizosphere streptomycetes 2881
 - high molecular weight closed circular DNA 6337
 - lactose medium, Agrobacterium 5781
 - lupin nodule, nitrogen fixation 2081
 - nitrogen fixation 2073 2880 3647 6440 7271 9508
 - nitrogen fixation, Aristida oligantha rhizosphere bacteria 2075
 - D-norvaline 4592
 - polysaccharide 2511
 - proteinase inhibitor 8303
 - soil, desiccation 10061 10062
 - soil microorganisms 3646
 - soil, nitrogen fixation 3651
 - soybean, phenols degradation 6021
 - soybean seed treatment 8031
 - sunn hemp, rhizosphere streptomycetes 2881
- ## Rhizobium japonicum,
- + Azotobacter chroococcum + soybean, nodulation/nitrogen fixation 1174
 - + Glycine max, nitrogen fixation 8914
 - + legume lectins, nitrogen fixation 8899
 - + soybean 6447 8030
 - + soybean, metachlorine 5505
 - + soybean, nitrogen fixation 451 1173 2890 5498 8033 8912 8913
 - + soybean, nitrogen fixation, soybean mosaic virus 6198
 - + soybean, nitrogen fixation, urea 4595
 - + soybean, nodulation/nitrogen fixation 1172 2082 8032
 - + tobacco, nitrogen fixation 4596
 - + wheat, nitrogen fixation 4596
 - coal-bentonite base carrier 2074
 - culture, tower air lift fermenter 5851
 - nitrate reductase 2485
 - nitrogen fixation 2073
 - soil, desiccation 10061 10062
 - soil, herbicide 5504
 - soil microorganisms 3646
 - soybean 2892
 - soybean nodule, Rhizoctonia solani 3472
- ## Rhizobium leguminosarum,
- + broad bean, nitrogen fixation 8902
 - + legume lectins, nitrogen fixation 8899
 - + legume, nitrogen fixation 2413
 - + pea 4581
 - + pea, nitrogen fixation 8909

Subject index

Rhizobium leguminosarum(Contd),

- + pea, nodulation/nitrogen fixation 4591 6446
- bacteroid, pea 4590
- desiccation, montmorillonite 6441
- glycine 4592
- D-norvaline 4592
- oil degradation, mercury 4623
- Parthenium hysterophorus extract 2932
- pea, yeast extract-mannitol agar 8898
- soil, desiccation 10061 10062
- soil microorganisms 3646

Rhizobium lupini,

- + lupin, nitrogen fixation 5497
- + lupin, nitrogen fixation, radioisotope assay 8908
- + tobacco, nitrogen fixation 4596
- + wheat, nitrogen fixation 4596
- carotenes 6943
- lupin 2888
- lupin, nodulation/nitrogen fixation 2887
- soil microorganisms 3646

Rhizobium meliloti,

- + alfalfa 4585
- + alfalfa, nitrogen fixation 10064
- + alfalfa, nitrogen fixation, soil pH 10065
- + alfalfa, nodulation, nitrogen fixation, ammonium nitrate fertilizer 5490
- + alfalfa, nodule, electron microscopy 6442
- + alfalfa, Phytophthora megasperma 5301
- + legume lectins, nitrogen fixation 8899
- coal-bentonite base carrier 2074
- fungicide resistance, legume seed treatment 7273
- NADP+-dependent isocitrate dehydrogenase 5073
- oil degradation, mercury 4623
- polysaccharide, structure 9447
- soil 5476
- soil microorganisms 3646

Rhizobium phaseoli,

- + bean, nitrogen fixation 5491 8901
- + legume lectins, nitrogen fixation 8899
- + mung bean, nitrogen fixation 7274
- + pea, nodulation/nitrogen fixation 4591
- fungicide resistance, legume seed treatment 7273
- soil microorganisms 3646

Rhizobium solani,

- fensulfothion 2086

Rhizobium trifolii,

- + Caucasian clover, nitrogen fixation 6445
- + clover, nitrogen fixation, acetylene reduction assay 2882
- + clover, nitrogen fixation/nodulation 2079 5492
- + clover, nodulation/nitrogen fixation 450
- + legume lectins, nitrogen fixation 8899
- + pea, nodulation/nitrogen fixation 4591
- + red clover, nitrogen fixation, soil pH 10065
- + subterranean clover 4586
- + subterranean clover, immunodiffusion, streptomycin-resistance 5493
- + subterranean clover, nitrogen fixation, acetylene reduction assay 2882
- + subterranean clover, nitrogen fixation, nitrate 8027
- + subterranean clover, nodulation/nitrogen fixation 2884 2885
- + white clover 4585
- + white clover, nitrogen fixation 449
- clover root hair branching 4584
- coal-bentonite base carrier 2074
- glycine 4592
- lupin, soil microorganisms 2888
- D-norvaline 4592
- soil, desiccation 10061 10062
- white clover, nodulation/nitrogen fixation 2887

Rhizobium vigna,

- nitrogenase 5487

Rhizoctol,

- Fusarium oxysporum 4484
- Cerculella padwickii 1100
- seed treatment, Sclerotium rolfsii, lentil 4523

Rhizoctonia,

- 2-amidocarbonylthiobarbituric acids 2027
- benzamide derivatives, plant protection 4508
- benzimidazole-1-carboximidic acid esters 1116
- bis-trifluoromethyl-imine-imidazolone derivatives, plant protection 5429
- carbamate derivatives 911
- chilli, plant protection 7145
- corn 4330
- cotton seed 2737
- fungicide, plant protection 384
- orchid 4573
- peanut 6192
- peanut, fungicide 265
- pyran-carboxylic acid anilide derivatives, plant protection 8820
- pyridazine derivatives 2019
- soil 3632
- sugarbeet, biological control, Penicillium 4499
- tetrazolo-pyrimidine derivatives, plant protection 3584
- tomato post-harvest decay, resistance 9922
- tomato, resistance 8782
- triazino-benzimidazole derivatives, plant protection 3588

Rhizoctonia arrhizus,

- cowpea seed 1848

Rhizoctonia bataticola,

- see also Macrophomina phaseoli
- betel 8678
- chalmogra oil 386
- chilli, bavistin 6370
- cinnamon oil 386
- cotton 1924
- cowpea seed 1848
- detergent 386
- okra, pectin methyl-esterase/endopolygalacturonase/exopolygalacturonase/polygalacturonate trans-eliminase/cellulase 1073
- peanut, dextranase 1835
- ramie 8721
- sugarbeet, culture 1084
- sugarbeet, fungicide seed treatment 2034

Rhizoctonia fragariae,

- endo-polygalacturonase 9428
- strawberry 2758

Rhizoctonia lamellifera,

- cellulolytic enzymes 4074

Rhizoctonia leguminicola,

- slobber syndrome 973

Rhizoctonia oryzae,

- rice, fungicide 4486

Rhizoctonia praticola,

- phenol oxidase, phenols polymerization 3305
- soil, phenol oxidase, pesticide polymerization 7278

Rhizoctonia solani,

- see also Thanatephorus cucumeris
- 4-thiocyano-quinazolines 2024
- + nematode, tomato 9903
- alfalfa 7108
- alfalfa, resistance 7108
- ammonium/potassium isobutyrate 1257
- bean 1842
- bean seed 4301
- carbamate derivatives, plant protection 4500
- carboxyanilidofuran derivatives, plant protection 7982
- cauliflower, fungicide 1103
- chrysanthemum 9856

Subject index

Rhizoctonia solani (Contd),

corn 8635
cotton 2739
cotton, biological control, *Bacillus subtilis* 372
cotton, biological control, *Penicillium patulum* 372
cotton, fungicide 4523
cotton, furan-3-carboxamide derivatives 1112
cotton, seed treatment fungicide 8636 9992
cowpea, soil 8609
cucumber, fungicide 380
fenugreek 1018
flax 8693
flax, resistance 8693
formamide derivatives, plant protection 7336
fungicide, plant protection 7204
imidazolidine-1,4-dione derivatives 2135
kievitone 2000
Kuntan smoke 8988
letil, plant protection/fungicide 2789
mercurated sulphonamides 1262
nematode-inhibiting substance, potato 3526
oat, biological control 1099 7202
oat, seed treatment fungicide 1120
okra 1069
okra, seed treatment fungicide 9993
oxadiazolidine-3,5-dione derivatives 1115
pea, fungicide 377
peanut 1015
N-phenyl maleic imide derivatives 393
phospholane/phosphite derivatives 3576
phytotoxin, potato 4267
potato 1077 4409 9884
potato, benomyl seed treatment 4526
potato, resistance 4409
potato, seed treatment fungicide 2033
potting compost 2055
pyracarbolid, plant protection 3585
pyridinium derivatives, plant protection 3583
pyrone derivatives, plant protection 6366
soil 3632 8022
soil, decomposing corn tissue volatiles 2871
soil, fluometuron 8036
soil, fungistasis 6420
soil, plant residues 2870
soil, prometryn 8036
soil, subsoiling 10038
soybean 8619 9769
soybean nodule 3472
spinach, plant protection 1951
squash 4416
strawberry, phenolic compounds 1952
Streptomyces volatile compounds 9886
sugarbeet 1954 9895
sugarbeet, cycloate 7969
sugarbeet, pentachloronitrobenzene seed treatment 2034
sugarbeet, resistance 1990
thiabendazole, plant protection 2818
thiadiazolo-benzimidazole derivatives 8081
tomato fruit rot 3545
tomato, plant protection 5392
toxin, animal feed 972
tridemorph 5417
triforine 396
triorganotin compounds/triorganolead compounds 2129
wheat, biological control 1099 7202
wheat, seed treatment fungicide 1120
wheat, soil straw 5334

Rhizoctonia tuliparum,

tulip 6314

Rhizophagus tenuis,

forest soil 7226
mycorrhizae, soil phosphate 8876

Rhizophyidium graminis,

soil, wheat, wheat spindle streak mosaic virus 8650

Rhizopin,

Rhizopus nigricans, antifungal agent/antibacterial agent/antiviral agent 1438

Rhizoplane,

crop plant, Actinomycetes 1164
fennel, fungi, subamycin 2863
Parthenium hysterophorus, mycoflora 3635
perennial ryegrass, microflora, chloropicrin 457
ultrasonic treatment, microorganisms 425

Rhizopogon luteolus,

radiate pine, fungicide seed dressing 7989
radiate pine, seed dressing fungicide 6382

Rhizopogon roseolus,

pesticides 8917

Rhizopus,

amylglucosidase, immobilisation 5921
amylglucosidase, thin layer-flow reactor 7611
blueberry post-harvest decay 5398
cell wall lysis, *Bacillus protease* 5972
cell wall, *Streptomyces orientalis* chitinase 6881
corn 8635
cotton seed 2737
dioxxygenated 5 α -pregnane hydroxylation 2508
enzyme immobilization 2
fermented food 4190
glucose dehydrogenase,
D-gluconic-delta-lactam 1435
glycopeptide, structure 2427
large cardium 4224
lipase, blue cheese 6061
malt, beer gushing 5167
meat product 6081
milk 920
mouldy grain, animal feed 3415
pistachio soil 5276
rennet, cheese 6045
rice seed 1880
safflower, seed treatment fungicide 8838
strawberry post-harvest decay, fungicide 8760
sunflower 8734
tomato post-harvest decay 5392
tree bark fermentation, fertiliser 7488
wood chips 10023

Rhizopus arrhizus,

apple post-harvest decay, fungicide 1965
3beta,7beta-dihydroxykaurenolide hydroxylation 2509
fenugreek seed 1017
mango post-harvest decay, fungicide 1965
oil palm kernels 4220
pomegranate post-harvest decay 1091
pomegranate post-harvest decay, fungicide 1965
potato post-harvest decay, fungicide 1965
sugarbeet 8733
waste treatment 10466

Rhizopus chinensis,

protease 7654

Rhizopus cohnii,

5,7-dichloro-2-methyl-quinolinol glucosidation 78
oil palm kernels 4220
protein 6842

Rhizopus delemar,

glucoamylase 7627
glucoamylase, maltose, gluconic acid 6892
glucoamylase, sake 7702
lipase 853

Rhizopus microsporus,

coal mine soil 2062 5479

Subject index

Rhizopus nigricans,

- aminocarbotrithioates 1263 1264
- bakery dust 9172
- dihalo-sulphonate derivatives 7979
- dioxxygenated 5 α -pregnane hydroxylation 2508
- fennel rhizoplane, subamycin 2863
- fennel rhizosphere, subamycin 2863
- guava post-harvest decay, thiabendazole 2767
- halogeno-oxo-androstanes hydroxylation 58
- hydrazino-pyridine derivatives 2139
- pea 9766
- pigeon pea rhizosphere 6422
- rhizopin 1438
- soil, formalin fumigation 6453
- steroid hydroxylation 6929
- sugars/sugar alcohols 5593
- sunflower 9943

Rhizopus niveus,

- amyloglucosidase 17
- glucoamylase, starch granule hydrolysis, scanning electron microscopy 844
- glucoamylase, 2-p-toluidinylnaphthalene-6-sulphonate fluorescence 9356
- protease, affinity chromatography, carbobenzoxy-D-phenylalanyl-triethylenetetra min 5090
- protease, beer wort 4157 4158

Rhizopus nodosus,

- glucoamylase, beer wort 4157 4158

Rhizopus oligosporus,

- biomass/protein 1622
- peanut 2595 3407
- peanut press cake fermentation 3408
- rennet 45
- rennet, Cheddar cheese 5223
- sewage sludge degradation 1465
- soybean fermentation, tempeh, phytase, phytate 9598
- tempeh 940

Rhizopus oryzae,

- alcohol dehydrogenase 1637
- banana post-harvest decay, fungicide 1965
- biological control, Syncephalis californica, soil 8885
- econazole 2974
- lipase, Cheddar cheese 7006
- miconazole 2974
- peanut 6192
- sunflower 333

Rhizopus rhizopodiformis,

- alcohol dehydrogenase 1637
- biomass/protein 1622
- coal mine soil 2062 5479

Rhizopus sexualis,

- strawberry post-harvest decay 7192

Rhizopus stolonifer,

- brinjal post-harvest decay, fungicide 1965
- 3-bromoacetoxy tetrahydrofuran 533
- cyclic dione derivatives 1266
- garlic juice 8987
- glutaraldehyde 6509
- isothiazolopyridinone derivatives 2975
- soil, cadmium 8018
- strawberry 2757
- strawberry post-harvest decay 7192
- thiazinium derivatives 3725
- thiocyano xanthate derivatives 2972
- trifluoromethyl phenyl-(3-(3',5'-dicyanophenyl)urea 2150

Rhizosphere,

- aquatic grass, nitrogen fixation 3644
- bacteria, Aristida oligantha, nitrogen fixation, Rhizobium/Azotobacter 2075
- bacteria, molybdenum 6415
- bacteria, trophic compounds/vitamins/hormones 3628
- barley, bacteria, phosphate 5470
- barley, microorganisms 456L

Rhizosphere (Contd),

- black gram, Rhizobium, streptomycetes 2881
- Brachypodium ramosum, bacteria, polysaccharide 3328
- crop plant, Actinomycetes 1164
- denitrification 3642
- eggplant, mycoflora, soil treatment 3634
- fennel, fungi, subamycin 2863
- Festuca arundinacea, bacteria, polysaccharide 3329
- fir, microflora, Fomitopsis annosa 408
- forest soil, microorganisms 7246
- fungi, eggplant, oilcake 2063
- fungi, Trigonella foenum-graecum 2064
- garlic, microorganisms, root treatment 8871
- green gram, Rhizobium, streptomycetes 2881
- Leguminosae, mycoflora 2865
- Lettuce, vesicular-arbuscular mycorrhiza 7257
- melon, microflora/Fusarium oxysporum, foliar nutrient sprays 2065
- microorganisms 3625
- microorganisms, mineral fertilizer 3656
- microorganisms, mineral microbiology 6408
- nitrification 3642
- onion, fungi, benomyl 7975
- onion, fungi, captan 7975
- oxygen, nitrogen fixation, Rhizobium + soybean 7276
- Parthenium hysterophorus, mycoflora 3635
- peanut, mycoflora 6421
- pigeon pea, mycoflora 6422
- pigeon pea, Pithomyces chartarum 2867
- plant, Azotobacter, nitrogen fixation 6439
- plant disease fungi 3633
- plant, Endogone 7257
- plant, mycoflora, seed mycoflora 4574
- poppy, vesicular-arbuscular mycorrhiza 7257
- rice, Beggiatoa 5473
- rice, Beijerinckia, immunofluorescence, nitrogen fixation 5486
- rice, denitrification 3643
- rice, metabolic gases 10042
- rice, microflora, nitrogen 6407
- rice, microorganisms, pesticides 8916
- rice, nitrogen fixation 3645
- rice, Pseudomonas putida, soil microorganisms, yield decline 7885
- rice, vesicular-arbuscular mycorrhiza 7257
- Scots pine, fungi, gibberellin-like compounds 4116
- soil microbial interactions 3626
- Sorghum vulgare, Xanthomonas malvacearum/Pseudomonas solanacearum/Fusarium moniliforme/Helminthosporium sativum 2856
- soybean, bacteria, Azotobacter 8015
- sunnemp, microorganisms, root exudates 3627
- sunnemp, Rhizobium, streptomycetes 2881
- sunnemp, Xanthomonas malvacearum/Pseudomonas solanacearum/Fusarium moniliforme/Helminthosporium sativum 2856
- Swiss stoen pine, microorganisms, amino acids 7229
- tobacco, mycoflora 1165
- tomato, phosphate-solubilizing bacteria 8038
- ultrasonic treatment, microorganisms 425
- weed, microflora, nitrogen 6407
- wheat, Gaemannomyces graminis tritici, fumigation 458
- wheat, microorganisms 4560 8872
- wheat, mycoflora 3636
- wheat, nitrogen fixation 4579

Rhodanese,

- Thiobacillus A2 4109

Rhodanine,

- derivatives, fungicide 6514

Rhodes grass,

- Chloris striata mosaic disease 7128
- Drechslera australiensis 2698

subject index

- odora* 26019,
Drechslera chloridis 2698
Drechslera hawaiiensis 2698
Sphaerotheca fuliginea, cucurbit 4491
odochrous group,
 mycolic acid 3966
ododendron aureum,
 extract, influenza virus 8994
osilon-Rhodomycinone,
Streptomyces, daunorubicin 9460
odopaxillus nudus,
 protensterol 5105
odophyta,
 extracts, antiviral agent 8993
odopseudomonas,
 + *Pseudomonas*, dormant bacteria, waste
 treatment 3121
 methanol 3235
odopseudomonas capsulatus,
 protein, food 8343
odopseudomonas gelatinosa,
 industrial product pollution 4848
 protein, agricultural waste 3238
odopseudomonas palustris,
 cytochrome oxidase 1647
odopseudomonas spheroides,
 antibiotic 5621
 catalase 5923
 methoxyspheroidene 7679
 methoxyspheroidenone 7679
D-ribose-1,5-bisphosphate carboxylase 7663
 tetracycline 6612
odopseudomonas viridis,
 carotenoid aldehydes 4132
 photochemical reaction centre 6944
odorsil,
 fermentation 88
odospirillaceae,
 waste treatment 2307
odospirillum rubrum,
 cAMP phosphodiesterase 3250
 chromatophores, ATP 2521
 chromatophores, immobilization,
 polyacrylamide 2415
 citrate synthase 3262
 culture vessel 7572
 DNA-dependent RNA polymerase 7660
 nitrogenase, iron protein 3245
 polyadenylic acid polymerase 7660
 polypeptide 4039
 succinate dehydrogenase 9436
odospiridium diobovatum,
 pigment 5131
odospiridium sphaerocarum,
 esterase, cephalosporins 8132
odospiridium toruloides,
 esterase, cephalosporins 8132
odotorula,
Actinomyces cinereus yeast-lytic enzyme
 2954
S-adenosylmethionine/methylthioadenosine 871
 1687
 culture 8292
Ferroplasma ferrooxidans, uranium leaching
 10090
 food 7719
 garlic extract 10169
 meat/meat product 8505
 plant leaf, pollen 2660
 protein, alfalfa whey 6839
 urea hydrolysis, Berthelot colour reaction
 6795
odotorula aurantifacies,
 food, acidified potato dextrose
 agar/non-acidified chlortetracycline potato
 dextrose agar 1591
odotorula glutinis,
 alpha-aminolaurophe none/alpha-aminolaurophe no
 ne derivatives 5571
Rhodotorula glutinis(Contd),
 hop oil emulsion, beer 5168
 protein, animal feed 6035
 protein, food 6035
 sauerkraut 7720
 tests 1593
 wastewater, animal feed 4228
Rhodotorula gracilis,
 immobilisation 803
Rhodotorula mucilaginosa,
 menthyl ester hydrolase 7638 7639
Rhodotorula rubra,
 benzoic acid assay 8530
 isothiazolopyridinone derivatives 2975
 sorbic acid assay 8530
 tests 1593
Rhopalosiphum padi,
 barley yellow dwarf virus, barley 4322 7119
Rhubarb,
Erwinia raphanistici 8724
Rhynchosporium orthosporum,
 orchardgrass 7875 8541
Rhynchosporium oryzae,
 rice 8647
Rhynchosporium secalis,
 barley 3478 6209 9778
 fungicide, plant protection 7206
Rhizomania acerinum,
 sulphur dioxide air pollution indicator 4985
Ribavirin,
 antiviral agent 3712
 herpesvirus 10185
 influenza virus 4674
 murine cytomegalovirus 3713
Ribavirin triphosphate,
 influenza virus 9000
Ribes nigrum,
 blackcurrant reversion virus 3502
 blackcurrant reversion virus, gall mite 3503
 resistance, *Sphaerotheca mors-uvae* 4457 4458
Sphaerotheca mors-uvae 8681
Sphaerotheca mors-uvae, fungicide 7905
Ribitol,
Corynebacterium, aldopentose reductase 2448
Riboamylase transferase,
 terminal, *Escherichia coli* 4108
Riboflavin,
 + yeast, tablet 806
Bacillus subtilis 66
 beer/yeast, assay, *Lactobacillus casei* 4160
 microbiological assay, beer, yeast 6016
Pichia guilliermondii 6949
**1-beta-D-Ribofuranosyl-1,2,4-triazole-3-carboxa
 mine**,
 see Virazole
7-(beta-D-Ribofuranosyl)-pyrrolo-pyrimidine,
 derivatives, antifungal agent, plant
 protection 3589
Ribofuranosyl-1,2,3-triazole,
 derivatives, antibacterial agent/antifungal
 agent 3727
Ribonuclease,
Actinomyces rimosus 862
Actinomyces rimosus, antiviral agent 9001
Bacillus amylozyma 46
Bacillus licheniformis, chemostat culture
 5913
Bacillus subtilis 861
 broad bean mosaic virus 8996
Candida lipolytica protein, hydrocarbon, food
 1717
Candida tropicalis protein, hydrocarbon, food
 1717
Kabatiella caulivora 1674
Penicillium claviforme 7662
Streptomyces aureofaciens 3282

Subject index

Ribonuclease (Contd),

Vibrio 1666

Ribonuclease M5,

Bacillus subtilis 7661

Ribonuclease N,

Escherichia coli 5973

Ribonucleotidyl transferase,

Escherichia coli 6922 6923

Ribopolynucleotide-synthesizing enzyme,

Escherichia coli 47

D-Ribose,

Bacillus pumilus 4118

Bacillus subtilis 4118

microbial 9501

Ribose-5-phosphate isomerase,

Bacillus caldolyticus 863

Thiobacillus thioparus 863

Ribose reductase,

Eremothecium ashbyii 5095

Ribosome,

Escherichia coli, dihydrostreptomycin 1320

Escherichia coli, paromomycin 1320

Escherichia coli, RNA + protein 5988

Escherichia coli, viomycin 1444

streptogramin A 8194

streptogramin B 8194

Streptomyces aureofaciens, chlortetracycline

3792 3793

Ribostamycin,

9501 10258

assay, Staphylococcus aminoglycoside

4-adenylyltransferase 2183

Streptomyces ribosidificus 2171

D-Ribulose-1,5-bisphosphate carboxylase,

Rhodospseudomonas sphaeroides 7663

Thiobacillus intermedius 48 49

Ribulose-1,5-diphosphate carboxylase,

Thiocapsa roseopersicina 2503

D-Ribulose 1,5-diphosphate carboxylase,

Alcaligenes eutrophus 3318

Hydrogenomonas eutropha 3319

Rice,

+ Spirillum, nitrogen fixation 5501

Acrocyndrium oryzae 7886 8644

Azotobacter chroococcum 7270

benomyl 400

boiled, bacteria 7775

Cercospora oryzae 6224

Cercospora oryzae, fungicide 4486

Claviceps oryzae-sativae 7887

Cochliobolus miyabeanus,

7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine

derivatives- rice, Pellicularia sasakii,

7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine

derivatives 3589

Corticium sasakii 280 7888

Corticium sasakii, sclerotia, soil 3640

Entyloma oryzae, fungicide 4486

flour, yeast-leavened bread 3402

fried, bacteria 7775

Gibberella fujikuroi 9798

Gigaspora gigantea 4571

Helminthosporium oryzae 281 282 1032 1033

1034 8645

Helminthosporium oryzae, antifungal agent

283 4498

Helminthosporium oryzae, fungicide 4486 7972

Helminthosporium sigmoideum 7131

Helminthosporium, tri-2-norbornyltin

derivatives 6363

Indonesian tape ketan, fermentation,

Amylomyces rouxii + yeast 8452

Karelian pasty, Bacillus cereus/Bacillus

subtilis, sorbic acid/sorbate 8551

Magnaporthe salvinii 5331

microbial diseases, plant protection 1029

Mycoplasma 5315

Neovossia horrida, fungicide 9961

Nigrospora oryzae toxin 976

Rice (Contd),

nitrogen fixation, acetylene reduction assay

8896

orange leaf virus 6221

Pellicularia sasakii, thioureidobenzene

phosphates 2014

Pellicularia sasakii, BAS 3050 F 1109

Pyrenochaeta growth inhibitor 7130

Pyricularia oryzae 1035 1881 2704 2705 2706

4341 4342 4343 8645 9799

Pyricularia oryzae, 2-aminopyrimidine

derivatives 395

Pyricularia oryzae, amipurimycin 9124 9125

Pyricularia oryzae, benomyl 7215

Pyricularia oryzae, blasticidin S tolerance

7218

Pyricularia oryzae,

2,2-dichloro-3,3-dimethylcyclopropane

carboxylic acid, phytoalexin 8785

Pyricularia oryzae, diphenylalmine

derivatives 392

Pyricularia oryzae, diphenylpyrazolium

derivatives 1114

Pyricularia oryzae, fungicide 4486 4487 5419

Pyricularia oryzae, kasugamycin/blasticidin S

resistance 8966

Pyricularia oryzae, pyrazolium derivatives

2812 3581 4511

Pyricularia oryzae,

7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine

derivatives 3589

Pyricularia oryzae, thiophosphoric acid ester

amide derivatives 1117

Pyricularia oryzae, thioureidobenzene

phosphates 2014

resistance, Pyricularia oryzae 2785 4341

4342

resistance, rice yellow dwarf virus 9931

resistance, Ustilaginoidea virens 2703

resistance, Xanthomonas oryzae 2703 6335

9932

Rhizoctonia oryzae, fungicide 4486

rhizosphere, Beggiatoa 5473

rhizosphere, Beijerinckia,

immunofluorescence, nitrogen fixation 5486

rhizosphere, denitrification 3543

rhizosphere, metabolic gases 10042

rhizosphere, microflora, nitrogen 6407

rhizosphere microorganisms, pesticides 8916

rhizosphere, nitrogen fixation 3645

rhizosphere, vesicular-arbuscular mycorrhiza

7257

Rhynchosporium oryzae 8647

rice dwarf virus, leafhopper, cartap 7962

rice dwarf virus, polyethylene glycol 5870

rice necrosis mosaic virus 2701

rice orange leaf disease, mycoplasma-like

organism 5330

rice tungro virus 1878 1879 2702 4340

Sclerophthora macrospora 3484

Sclerotium oryzae, dextranase 1835

Sclerotium oryzae, fungicide 284

seed, Aspergillus flavus 1838

seed, Drechslera oryzae 6223

seed, mycoflora 1880

seed, Pyricularia oryzae 6223

seed, Trichoconis padwickii 6223

seed, Xanthomonas oryzae 6222

soil, fungi 8879

soil, nitrogen fixation 2876

soil, sulphate-reducing bacteria 4563

stored, Aspergillus versicolor,

sterigmatocystin 9690

stored, Penicillium viridicatum, citrinin

9690

stored, Penicillium viridicatum, ochratoxin A

9690

stored, sterigmatocystin 238

Thanatephorus cucumeris 8648

Ustilaginoidea virens 2703

Subject index

Rice (Contd),

- virus disease 1869
- wild, *Drechslera oryzae* 4344
- wild, *Drechslera sorokiniana* 4344
- wild, fermentation, bacteria 2549
- wild, *Helminthosporium sigmoideum* 4344
- wild, microbial diseases 4344
- wild, *Sclerotium* 4344 8659
- wild, *Helminthosporium sigmoideum* 7131
- Xanthomonas oryzae* 279 1031 2703 6165 7129 9796
- Xanthomonas oryzae*, biological control 7220
- Xanthomonas oryzae*, *Leptocorisa acuta* 1030
- Xanthomonas oryzae*, resistance 1984
- Xanthomonas oryzae*, triazinedione derivatives 1119
- Xanthomonas oryzae* 9797
- yield decline, *Pseudomonas putida*, soil microorganisms 7885

Rice beer,

- Hansenula anomala*/*Mucor rouxianus*, beverage, fermented 4163

Rice chaff smoke,

- calcined, fungicide 8928

Rice dwarf virus,

- rice, leafhopper, cartap 7462
- rice, polyethylene glycol 5870

Rice necrosis mosaic virus,

- rice 2701

Rice orange leaf disease,

- mycoplasma-like organism, rice 5330

Rice tungro virus,

- rice 1878 1879 2702 4340
- rice, plant protection 1029

Rice yellow dwarf virus,

- rice, resistance 9931

Ricinus communis,

- seed, *Aspergillus flavus* 1838

Rickettsia,

- cell culture, gentamicin 611
- rice wrinkle disease, tetracycline, penicillin 7221

Rickettsia akari,

- cell culture, gentamicin 611

Rickettsia canada,

- cell culture, gentamicin 611

Rickettsia-like organism,

- latent rosette disease, spinach 7173
- latent rosette disease, sugarbeet 7173
- phony disease, peach, vacuum infiltration, phase-contrast microscopy 9840
- plant disease 8591
- witches' broom, larch 410
- Xiphinema index*, grapevine yellows disease 9869

Rickettsia mooseri,

- cell culture, gentamicin 611

Rickettsia prowazekii,

- antibiotics 5878
- Renografin density gradient centrifugation 5865
- tetracyclines 5878

Rickettsia rickettsii,

- cell culture, gentamicin 611

Rickettsia typhi,

- Renografin density gradient centrifugation 5865

Rigidiporus lignosus,

- teak, plant protection 1158

Rifamicin B,

- thin-layer chromatography 1374

Rifampicillin,

- Pseudomonas pseudomallei* 8117

Rifampin,

- + amphotericin B, *Candida albicans* 5646
- + penicillin, *Brucella*, L-form 5639
- antibacterial agent 6546 9100
- antibacterial agent, operating theatre 1512
- Brucella* 2229
- Clostridium perfringens* 5628

Rifampicin (Contd),

- Enterobacter aerogenes* 1214
- Escherichia coli* 1214
- Klebsiella pneumoniae* 1214
- Micrococcus radiodurans* thymine-less death 4745
- Mycobacterium marinum* 4928
- Mycobacterium tuberculosis* 4647 7309
- Mycobacterium tuberculosis*, sensitivity testing, radiometry 7261
- Neisseria gonorrhoeae* 2597
- polymorphism 9097
- Proteus mirabilis* 1214
- Pseudomonas aeruginosa* 1214
- resistance, *Escherichia coli* 8354 10126
- resistance, *Mycobacterium kansasii* 4645
- resistance, *Mycobacterium tuberculosis* 7309
- resistance, *Pseudomonas aeruginosa* 10119
- Staphylococcus aureus* 1214
- Staphylococcus aureus*, electron microscopy 4749
- Streptococcus faecalis* 1214

Rifampicin O,

- rifamycins, thin-layer chromatography 9098

Rifampicin S,

- rifamycins, thin-layer chromatography 9098

Rifampin,

- see Rifampicin 1304
- + amphotericin B, *Candida albicans*, microdilution transfer plate technique 5627
- antibacterial agent 2111
- Clostridium perfringens* 7371
- Corynebacterium minutissimum* 1306
- Corynebacterium parvum* 1306
- Enterobacteriaceae 6557
- Mycobacterium farcinicum* 4648
- Mycobacterium phlei* 4648
- Mycobacterium smegmatis* 4648
- Mycobacterium tuberculosis* 4648
- Propionibacterium acnes* 1306
- Propionibacterium avidum* 1306
- Propionibacterium granulosum* 1306
- resistance, *Mycobacterium* 8055
- Salmonella* 8949
- Streptococcus mutans* 552
- vaccinia virus DNA 4774

Rifamycin,

- 10264
- antiviral agent 1322
- derivatives, microbial DNA-polymerase 4773
- Nocardia mediterranei*, C-13 nuclear magnetic resonance spectroscopy 10530
- noxvirus 1322
- thin-layer chromatography 9098
- Trametes badia* 1235

Rifamycin B,

- microbiological assay 4602

Rifamycin G,

- Nocardia mediterranei* 2228

Rifamycin O,

- assay, spectrophotometry, rifamycin S 10319

Rifamycin S,

- assay, spectrophotometry, rifamycin O 10319
- derivatives 3789
- rifamycins, thin-layer chromatography 9098

Rifamycin SV,

- 3-formyl-, dimeric hydrazone 6033
- derivatives, albumin binding 10321
- derivatives, antibacterial agent 10320
- derivatives, avian myeloblastosis virus DNA polymerase 4772
- derivatives, Friend leukaemia virus 10265
- derivatives, microbial DNA-polymerase 4773
- Neisseria meningitidis* 4724
- rifamycins, thin-layer chromatography 9098

Rigidiporus ulmarius,

- trees 9996

Rimantadin,

- phage lambda 1244

Subject index

- Rimantadin(Contd),**
 phage T-3 1244
 phage T-4 1244
- Riminothiazine derivatives,**
Mycobacterium marinum 2928
- Rimocidin,**
 mass spectroscopy 7364
 structure 10404
 yeasts 2170
- Ring rot,**
Corynebacterium sepedonicum, potato 3521
Myrothecium roridum, brinjal 3504
- Rishitin,**
 antifungal agent 3568
Botryotinia narcissicola 1961
Botrytis cinerea 1961
Botrytis fabae 1961
Erwinia carotovora, potato post-harvest decay 4445
Phytophthora infestans, potato 1940 2793 6286 6351
 potato, microorganisms 4495
 potato, *Phytophthora infestans*/*Fusarium avenaceum*/*Phoma exigua*, assay 3567
 potato, *Phytophthora infestans*, streptomycin 3525
 tomato, *Fusarium lycopersici* 8789
- Rishitinol,**
Phytophthora infestans, potato 1940
- Ristobiose,**
 ristomycin A 4821
- Ristocetin A,**
 antibacterial agent 3817
- Ristocetin B,**
 antibacterial agent 3817
- Ristomycin,**
 antibacterial agent 3817
 bile system microflora 2995
Escherichia coli 1304
Proteus 1304
Pseudomonas aeruginosa 1304
Staphylococcus 1304 1309 3001
- Ristomycin A,**
 ristobiose 4821
 ristotriose 4821
- Ristotriose,**
 ristomycin A 4821
- RIT 2214,**
 penicillanic acid derivative, *Cephalosporium acremonium*, antibacterial agent 9078
- Rizomania,**
 sugarbeet 4421
- RNA,**
 + protein, *Escherichia coli* ribosome 5988
 activated sludge, waste treatment 9181
Alcaligenes eutrophus, heat treatment 5115
 antiviral agent, interferon 7340
 autolysis, *Saccharomyces cerevisiae* protein 9349
Bacillus megaterium, dothistromin 986
Candida biomass 8309
 complexes, antiviral agent, interferon 8084
Corynebacterium autotrophicum, heat treatment 5116
 coryneform, heat treatment 5116
 degradation, *Micrococcus luteus*
 polynucleotide phosphorylase 7712
Escherichia coli, heat treatment 5116
 fluorine-labelled, *Escherichia coli*, F-19
 nuclear magnetic resonance spectroscopy 5989
 fungal, interferon, antiviral agent 9451
 microbial 3217 5114
Mycobacterium tuberculosis, vaccine 666
Nocardia opaca, heat treatment 5116
 plant viruses 4991
 potato spindle tuber viroid, potato,
 polyacrylamide gel electrophoresis 6284
Pseudomona flava, heat treatment 5116
- RNA(Contd),**
Pseudomona putida, heat treatment 5116
Saccharomyces cerevisiae RNase 6920
Streptomyces aureofaciens, chlortetracycline 3792
 Torula, poultry feed 7033
 viral, interferon/antiviral agent 3334
- rRNA,**
Escherichia coli, hybridization-competition assay 4948
Streptomyces aureofaciens, chlortetracycline 3792
Streptomyces griseus, streptomycin 3781
- tRNA,**
Escherichia coli, selenation 7674
- RNA 5,**
 cucumber mosaic virus, tomato 7938
- RNA polymerase,**
Bacillus brevis, gramicidin 7431
Bacillus subtilis 5096
Bacillus subtilis, protease removal 6820
 DNA-dependent, *Rhodospirillum rubrum* 7660
 DNA-dependent, *Escherichia coli*, adenosine triphosphatase 910
 DNA-dependent, *Escherichia coli*, structure 7659
Escherichia coli 1675
Escherichia coli, cysteine/methionine 1676
Escherichia coli, tirandamycin 2272
Penicillium roqueforti PR toxin 1810
 RNA-dependent, mengovirus, pyrimidine derivatives 4682
- RNA polymerase L1,**
Bacillus subtilis 6921
- RNA polymerase L2,**
Bacillus subtilis 6921
- RNase,**
Saccharomyces cerevisiae, RNA 6920
- Road-building material,**
 fungi 5507
 Lignin mineral powder, fungal degradation 8934
- Robillarda,**
 penicillin amidase, 6-aminopenicillanic acid 5676
- Robillarda sessilis,**
Bridelia retusa 2663
- Robinia pseudoaccacia,**
Erysiphe trifolii 1002
- Roccalt,**
 bactericide 8245
- Rock,**
 lime, fungi 5507
- Roe,**
Vibrio parahaemolyticus 8511
- Rolitetracycline,**
 minibag/minibottle antibiotic admixtures,
 stability 9030
 oat seed treatment 10236
 stability 4785
- Roll-streak method,**
 anaerobic bacteria 1556
- Roller bottle,**
 multisurface glass, animal cell culture 6802
- Rondanilla dimidiata,**
 biological control, *Fomitopsis annosa*, pine 6390
- Room,**
 air, ultraviolet radiation lamp 8246
 disinfection 1508
 hygiene, antifungal agent 3909
- Root decay,**
Kretzschmaria clavus, *Macadamia integrifolia* 5358
- Root dieback,**
 Pythium, carrot 3505
 Pythium sulcatum, carrot, *Olpidium brassicae*,
 tobacco necrosis virus 8685
- Root rot,**
 alfalfa 3458

Subject index

Root rot(Contd),

Alternaria alternata, strawberry, phenolic compounds 1952
Aphanomyces euteiches, pea, dinitramine 6353
Aphanomyces euteiches, pea, herbicide 7968
Aphanomyces euteiches, pea, trifluralin 6353
Armillaria mellea, apple, plant protection 7136
Armillaria mellea, Monterey pine 9999
Armillaria mellea, ponderosa pine 5451 9999
Armillaria mellea, willow 10018
Armillaria novae-zelandiae, radiate pine, toetoe 5452
Cercospora herpotrichoides, wheat, fungicide 8797
Clitocybe tabescens, apple, plant protection 7136
Cochliobolus sativus, barley 270
Cochliobolus sativus, *Fusarium culmorum*, *Fusarium sulphureum*, *Fusarium acuminatum*, wheat 6234
Cochliobolus sativus, wheat 270 2712 6235
Cochliobolus sativus, wheat, fungicide 5420
Corticium solani, *Datura innoxia* 1058
Erwinia chrysanthemi, sweet potato 7176
Erwinia, sweet potato 8735
Fomes annosus, Douglas fir 1122
Fomes annosus, ponderosa pine 1122
Fomes annosus, sugar pine 1122
Fomes annosus, white fir 3608
Fomitopsis annosa, pine, biological control, fruit fly 6390
fungal, sunflower 8734
fungi, wheat 4349 6233
Fusarium, alfalfa 9751
Fusarium avenaceum, cereal, soil 7876
Fusarium, barley 6203
Fusarium, corn 6203
Fusarium culmorum, cereal, soil 7876
Fusarium, Gramineae, culture medium 8295
Fusarium, lupin 5304
Fusarium oxysporum, Douglas fir 2832
Fusarium oxysporum, *Lycopersicon* 6310
Fusarium oxysporum, *Lycopersicon*, resistance 6310
Fusarium oxysporum + *Melioidogyne javanica*, ninde 2750
Fusarium oxysporum, pea 4307
Fusarium oxysporum, tomato 6310
Fusarium oxysporum, tomato, nematode 8742
Fusarium oxysporum, tomato, resistance 6310
Fusarium oxysporum, wheat, fungicide 2801
Fusarium, ponderosa pine, soil treatment 6391
Fusarium roseum, alfalfa 6174
Fusarium roseum, red clover 6174
Fusarium roseum, white clover 6174
Fusarium solani, bean 1842 8604
Fusarium solani, bean, resistance 8763 8764
Fusarium solani, bean, soil, fungistasis 9757
Fusarium solani, bean, soil
pesticide/herbicide 10073
Fusarium solani, cereal, soil 7876
Fusarium solani, pea 3466
Fusarium solani, sainfoin 4308
Fusarium solani, sainfoin, resistance 7200
Helminthosporium sativum, cereal, soil 7876
Helminthosporium sativum, Gramineae, culture medium 8295
Helminthosporium sativum, wheat 5338 9808
Macrophomina phaseolina, sesame, pectic enzymes 5084
mycoflora, Scots pine 2038
pea, fungicide 377
Phellinus weirii, bigleaf maple 7232
Phellinus weirii, Douglas fir 1124 7232
Phellinus weirii, grand fir 7232
Phellinus weirii, lodgepole pine 7232
Phellinus weirii, mountain hemlock 7232

Root rot(Contd),

Phellinus weirii, pine 1124
Phellinus weirii, red alder 7232
Phellinus weirii, Sitka spruce 7232
Phellinus weirii, western hemlock 1124 7232
Phellinus weirii, western larch 7232
Phellinus weirii, western redcedar 1124 7232
Phellinus weirii, western white pine 7232
Phoma chrysanthemicola, *chrysanthemum*, plant protection, fertilizer 4481 4482
Phytophthora cambivora, cherry 4362
Phytophthora cinnamomi, avocado 5348 5349 6240
Phytophthora cinnamomi, Lawson cypress, fungicide 8843
Phytophthora cryptogea, safflower 7170 9887
Phytophthora drechsleri, cherry 4362
Phytophthora drechsleri, safflower 8726
Phytophthora drechsleri, safflower, resistance 8726
Phytophthora, horse chestnut 2848
Phytophthora lateralis, Port-Orford cedar 3606
Phytophthora megasperma, alfalfa 5300
Phytophthora megasperma, alfalfa, resistance 1977
Phytophthora megasperma, alfalfa, *Rhizobium meliloti* 5301
Phytophthora megasperma, cherry 4362
Phytophthora megasperma, soybean 1861 6202 7116
Phytophthora megasperma, soybean, pyroxychlor seed treatment 2030
Phytophthora palmivora, papaya, fungicide 8666
Phytophthora parasitica, radiate pine, fungicide 4548
Polyporus tomentosus, black spruce 1125
Polyporus tomentosus, lodgepole pine 1125
Polyporus tomentosus, ponderosa pine 1125
Polyporus tomentosus, tamarack 1125
Polyporus tomentosus, white spruce 1125
Poria incrassata, *Sequoia gigantea* 6392
Pyrenochaeta lycopersici, tomato 6312
Pythium, bean 1842
Pythium debaryanum, sugarbeet, biological control, *Pythium oligandrum* 9991
Pythium irregulare, strawberry, phenolic compounds 1952
Pythium, ponderosa pine, soil treatment 6391
Pythium splendens, geranium 8694
Pythium ultimum, larkspur, fungicide 2805
Pythium ultimum, sugarbeet, biological control, *Pythium oligandrum* 9991
raspberry 1078
Rhizoctonia bataticola, okra, pectin methylesterase/endopolygalacturonase/exopolygalacturonase/polygalacturonate trans-eliminase/cellulase 1070
Rhizoctonia bataticola, peanut, dextranase 1835
Rhizoctonia solani, bean 1842
Rhizoctonia solani, *Beta vulgaris* 1954
Rhizoctonia solani + nematode, tomato 9903
Rhizoctonia solani, strawberry, phenolic compounds 1952
Rhizoctonia solani, sugarbeet, resistance 1990
Rhizopus arrhizus, sugarbeet 8733
Rigidoporus lignosus, teak, plant protection 1158
Sclerotinia sclerotiorum, bean 1842
Sclerotium rolfsii, bean 1842
squash, *Ceratobasidium* 4416
squash, *Fusarium oxysporum* 4415
squash, *Fusarium solani* 4416
squash, *Pythium aphanidermatum* 4416
squash, *Pythium irregulare* 4416
squash, *Rhizoctonia solani* 4416
Tetracladium setigerum, gentian 307

Subject index

- Root rot(Contd),**
Tetracladia setigerum, strawberry 307
Thielavia terricola, cluster bean, culture medium 1004
Thielavia terricola, sesame, culture medium 1004
Thielavia terricola, sesame, fungicide 381
wheat, biological control, soil microflora 371
- Root wilt,**
Enterobacter, coconut palm 5370
- Rootlet necrosis,**
Phytophthora cinnamomi, macadamia 1903
- Roquefortine,**
Penicillium roqueforti 6008
Penicillium roqueforti, blue cheese 926
- Rosa chinensis,**
extract, gallic acid, antifungal agent 6507
- Rosa indica,**
flowers, gallic acid, antifungal agent 8072
- Rosa indica major,**
Prunus necrotic ringspot virus 7933
- Rosa rugosa,**
strawberry latent ringspot virus 7169
- Rosa semperflorens,**
Prunus necrotic ringspot virus 7933
- Rosaceae,**
Botrytis cinerea 5297
Camptosporium crunifolium 5297
Capnodium salicinum 5297
Coccomyces hiemalis 5297
Colletotrichum fructigenum 5297
Coriolus hirsutus 5297
Coriolus versicolor 5297
Coriolus zonatus 5297
Entomosporium maculatum 5297
Gloeodes porigena 5297
Eloeophyllum sepiarium 5297
Gymnosporangium sabinae 5297
Leptothyrium pomi 5297
Mycosphaerella sentina 5297
Nectria colligera 5297
Phyllosticta mali 5297
Polyporus porcinus 5297
Stereum purpureum 5297
Verturia inaequalis 5297
Venturia pyrina 5297
- Rosamicin,**
12,13-dioxo-12,13-dihydro- 7449
antibacterial agent 2190
Chlamydia trachomatis 10242
Haemophilus influenzae 10405
Micromonospora rosaria 6646
monoclonal, antibacterial agent 5760
Neisseria gonorrhoeae 10405
Neisseria meningitidis 10405
- Rose,**
apple mosaic virus 4413
Diplocarpon rosae 1050
Diplocarpon rosae, fungicide 2806
flowers, gallic acid, antifungal agent 8072
Peronospora sparsa 8725
Prunus necrotic ringspot virus 4413 7933
resistance, blackspot/powdery mildew/rust 4473
resistance, mildew 1096 4472
resistance, powdery mildew 4474 6343
Sphaerotheca pannosa, fungicide 1101 2795 2796
Sphaerotheca pannosa, resmethrin 4500
strawberry latent ringspot virus 7169
- Rose bengal test,**
standardisation 10511
- Rosemary,**
spice extractive, antibacterial agent, meat 4126
- Rosenbrock's method,**
Candida boicini, methanol culture medium 1812
- Rosenow medium,**
bacteriology 2370
- Roseofungin,**
Actinomyces roseoflavus 5670
Streptomyces roseoflavus 4822
- Rosette disease,**
mycoplasma-like organism, pigeon pea 5339
- Rotary fermentor,**
horizontal, *Pseudomonas ovalis*, glucenic acid 4034
- Rotating aeration,**
pig slurry, picornavirus 4857
sewage sludge, *Salmonella* 678
- Rotating disc process,**
waste treatment 675
- Rotaventin,**
yeasts 2170
- Rothia dentocariosa,**
culture medium 4963
- Rotylenchus,**
nematicide, tobacco rattle virus, gladiolus 4430
- Rous sarcoma virus,**
3-hydroxyquinolines 526
isoniazid-copper complex 7343
tissue culture, polyethylene glycol-pronase concentration 4012
- Rubber,**
Curvularia pallescens 1051
fungicide, quaternary ammonium compound 2961
latex effluent, bacterial methane fermentation 670
Microcyclus ulei 1947 1948 4289 4414
virus 2657
vulcanized, microbial degradation 122 6983
- Rubber latex,**
microbial degradation, preservation 10353
- Rubber tree,**
Leptoporus lignosus 329
- Rubberized ventilation tube,**
mine, fungi, *Acremonium charticola* 4180
- Rubella,**
haemagglutination-inhibition test 792
serology, *Staphylococcus aureus* protein A 5035
- Rubella virus,**
haemagglutination/haemagglutination-inhibition, lyophilised chick erythrocytes 1606
immunoglobulin G/immunoglobulin M, solid-phase radioimmunoassay 1609
- Rubella virus vaccine,**
10420
- Rubidium,**
+ *Saccharomyces cerevisiae*, amphotericin B assay 5696
+ *Saccharomyces cerevisiae*, nystatin assay 5696
- Rubidium-86,**
release, amphotericin B assay, *Candida parapsilosis* 3791
- Rubomycin,**
Actinomyces coeruleorubidus 2269 4823
assay, fluorimetry 5647 8152
glycosylation, *Actinomyces coeruleorubidus* 8419
resistance, Fisher lymphadenosis, antitumour antibiotic 9120
resistance, *Staphylococcus aureus*, antitumour antibiotic 9120
- Rubomycin B,**
+ ultraviolet radiation/mitomycin C, bactericide 5747
- Rubomycin C,**
+ ultraviolet radiation/mitomycin C, bactericide 5747
- Rubratoxin,**
Penicillium rubrum 3438 4268 6145
Penicillium rubrum, lipid 9720
- Rubratoxin A,**
Penicillium rubrum 8573

Subject index

- ubratoxin B,**
 - assay, rabbit cornea cell culture 2627
 - bacteriophage 2627
 - food, field desorption mass spectrometry 7810
- human cell culture, cytocide 5260**
- Penicillium rubrum 5573**
- ubredoxin,**
 - Acinetobacter calcoaceticus 2447
 - Desulfovibrio desulfuricans 3243
 - Desulfovibrio nigas 3244
 - Desulfovibrio vulgaris 3244
 - Pseudomonas oleovorans, immobilisation 8395
- ubrosulphin,**
 - carbon-13 nuclear magnetic resonance spectroscopy 6948
 - Penicillium viridicatum 6000
- ubus,**
 - Botrytis cinerea, ferbam 4507
 - Didymella applanata 4291
 - Didymella applanata, ferbam 4507
 - Erwinia amylovora 8680
 - microbial diseases 1078
- ubus ellipticus,**
 - Hamaspora benquetensis 997
- ubus fruticosus,**
 - Microsphaera rubi 4372
- ubus idaeus,**
 - Agrobacterium radiobacter 2756
 - resistance, Schaeerotheca macularis 9942
- ubus loganobaccus,**
 - post-harvest decay, fungi 6321
- ubus neglectus,**
 - microbial diseases 1078
- ubus occidentalis,**
 - microbial diseases 1078
- ubus phenicolasius,**
 - cucumber mosaic virus 6315
 - Hamaspora benquetensis 997
- ubus squarrosus,**
 - Erysiphe rubicola 2664
- ubus strigosus,**
 - microbial diseases 1078
- ugose leaf curl disease,**
 - bacterium-like organism, clover 261
- ugulosin,**
 - Penicillium rugulosum 2631
- ugulovassine A,**
 - dihydro-, Penicillium concavo-rugulosum 5125
 - Penicillium concavo-rugulosum 5125
- ugulovassine B,**
 - Penicillium concavo-rugulosum 5125
- um,**
 - aroma composition 5166
 - butyric acid bacteria + Schizosaccharomyces pombe 5182
 - distillery slops, fungi 7701
 - stillage, anaerobic digestion 10446
- usen,**
 - anaerobic bacteria, urease assay 8271
 - bacteria, assay 8283
 - bacteria, cellulolytic enzymes 5934
 - bacteria, cellulose dry matter digestibility 6095
 - bacteria, selective medium 3959
 - cattle, ATP- 2599
 - fermentation, monensin 3417
 - lignin degradation 4174
 - lignin-degrading bacteria, culture medium 1563
 - microbial biomass, ATP 6782
 - microflora, ochratoxin A 2632
 - microorganisms 4019
 - microorganisms, aflatoxin B1 4254
 - microorganisms, ochratoxin A 4254
 - microorganisms, ruminant feed 5743
 - microorganisms, sterigmatocystin 4254
 - microorganisms, volatile fatty acids, pivalic acid 3416
 - symbiosis 5876
- Rumen bacterium,**
 - amino acid 5025
 - Clostridium botulinum toxin degradation 3445
 - culture medium 3167
 - preservation 7356
 - protein, digestibility, buffalo 6094
 - protein, digestibility, goat 6056
 - rumen fluid culture medium 9265
 - starch-attachment 8282
- Rumen fluid,**
 - culture/isolation/identification medium, anaerobic bacteria, swine faeces 4938
 - rumen bacteria culture medium 9265
- Rumex,**
 - Ramularia 252
 - Rumex virus 2 9862
- Rumex maritimus,**
 - extract, antifungal agent, Trichophyton mentagrophytes/Microsporum canis 3696
- Rumex virus 2,**
 - cock 9862
- Ruminant,**
 - feed 2096
 - feed, aflatoxin B1, rumen microorganisms 4254
 - feed, antibiotic A2041 derivatives 200
 - feed, antibiotic A-2315 3799
 - feed, cellulose dry matter digestibility 4095
 - feed, cephalosporin R-sulphoxides 4736
 - feed, chloramphenicol 7039
 - feed, Lactobacillus bulgaricus fermented cheese whey 4226
 - feed, Lactobacillus fermented potato-processing waste 9613
 - feed, monensin 3417
 - feed, ochratoxin A, rumen microorganisms 4254
 - feed, penicillin R-sulphoxides 4736
 - feed, preservative 9643
 - feed, rumen bacteria, selective medium 3959
 - feed, rumen microorganisms 5243
 - feed, rumen microorganisms, milk 944
 - feed, silage 9635 9446
 - feed, silage, preservation 7045
 - feed, sterigmatocystin, rumen microorganisms 4254
 - feed, tomato pulper waste silage 9640
 - feed, trichloroethyl adipate, methane suppression 9620
 - rumen bacteria, Clostridium botulinum toxin degradation 3445
 - volatile fatty acids, pivalic acid 3416
- Ruminococcus albus,**
 - glucan 5986
 - rumen, ATP 6782
 - urease assay 8271
- Ruminococcus bromii,**
 - urease assay 8271
- Ruminococcus flavefaciens,**
 - culture 6782
- Rust,**
 - cereal, computer model 7118
 - Cronartium fusiforme, loblolly pine 3609 6386
 - Cronartium fusiforme, loblolly pine, resistance 3610
 - Cronartium fusiforme, loblolly pine, Scytalidium uredinicola 5453
 - Cronartium fusiforme, loblolly pine, Tuberculina maxima 2825
 - Cronartium fusiforme, oak, biological control, Darluca filum 2049
 - Cronartium fusiforme, slash pine 2040 3609 6287
 - Cronartium fusiforme, slash pine, fungicide 2041
 - Cronartium fusiforme, slash pine, Scytalidium uredinicola 5453
 - Cronartium ribicola, western white pine 6388

Subject index

Rust (Contd),

Cumminsia mirabilissima, Mahonia
aquifolium 4368
Hemileia vastatrix, coffee, fungicide 5422
Hemileia vastatrix, coffee, plant protection
362
Melampsora allii-populina, poplar 3621
Melampsora cerastii, Siberian fir 6384
Melampsora larici-populina, poplar 3621
Melampsora lini, flax 6266
Melampsora lini, flax, fungicide 8801
Melampsora lini, flax, resistance 360
Melampsora, willow 10018
Phakopsora pachyrhizi, bean 6201
Phakopsora pachyrhizi, *Centrosema pubescens*
6201
Phakopsora pachyrhizi, lablab bean 6201
Phakopsora pachyrhizi, lima bean 6201
Phakopsora pachyrhizi, runner bean 6201
Phakopsora pachyrhizi, soybean 4312 6196
6201
Puccinia arachidis, groundnut 1853
Puccinia arachidis, peanut 8611
Puccinia arachidis, peanut, fungicide 8612
Puccinia carthami, safflower 7934 9888
Puccinia graminis, Mahonia 4368
Puccinia helianthi, sunflower 333 8734 9896
Puccinia hordei, oat, triazinedione
derivatives 1119
Puccinia maydis, corn, fungicide 2800
Puccinia oxalidis, *Oxalis* 4368
Puccinia oxalidis, *Oxalis articulata* 4368
Puccinia oxalidis, *Oxalis bowiei* 4368
Puccinia oxalidis, *Oxalis caprina* 4368
Puccinia oxalidis, *Oxalis corymbosa* 4368
Puccinia oxalidis, *Oxalis latifolia* 4368
Puccinia pelargonii-zonalis, pelargonium,
fungicide 6364
Puccinia recondita, wheat, 2-aminopyrimidine
derivatives 395
Puccinia recondita, wheat, diphenylamine
derivatives 392
Puccinia recondita, wheat, pyrazole
derivatives 6368
Puccinia recondita, wheat, triazinedione
derivatives 1119
Puccinia saxifragae, *Conimitella williamsii*
2736
Puccinia sorghi, corn 5328
Puccinia sorghi, corn, resistance 2782
Puccinia sparganioides, smooth cordgrass
3480
rose, resistance 4473
Tranzschelia pruni-spinosae, almond 9820
Tranzschelia pruni-spinosae, apricot 9820
Tranzschelia pruni-spinosae, Japanese plum
9820
Tranzschelia pruni-spinosae, peach 9820
Tranzschelia pruni-spinosae, plum 9820
Uredo khandalensis, *Polygonum glabrum* 1074
Uromyces appendiculatus, bean 4288
Uromyces appendiculatus, bean,
2-iodobenzanilide 3580
Uromyces appendiculatus, *Macroptilium*
atropurpureum 5305
Uromyces appendiculatus, *Macroptilium*
bracteatum, resistance 5305
Uromyces appendiculatus, *Macroptilium*
lathyroides, resistance 5305
Uromyces appendiculatus, *Vigna sesquipedalis*
267 3473 4313
Uromyces ciceris-arietini, gram, phyllosphere
fungi 3465
Uromyces phaseoli, bean 1842
Uromyces phaseoli, bean,
aminomethylenemalononitrile derivatives
3578
Uromyces phaseoli, bean, antibiotic A-2315
623

Rust (Contd),

Uromyces phaseoli, bean, phthalimide
derivatives 2815
Uromyces phaseoli, bean, thioallophanate
derivatives 391
Uromyces phaseoli, cowpea 4305
Uromyces phaseoli, snap bean, fungicide 2798
Uromyces setariae-italica, Italian millet
3481
Uromyces viciae-fabae, broad bean, pyrazole
derivatives 6368
Uromyces vignae, cowpea, resistance 7194
Rusty root,
Pythium, carrot 3505
Rusty spot,
Podosphaera leucotricha, peach 8669
Rye,
Claviceps purpurea 1882
Claviceps purpurea, ergot 1883
Fusarium nivale 4315
nutritive value assay, *Aspergillus flavus*
5855
Puccinia dispersa 2707 4315
Puccinia graminis 272
Puccinia graminis secalis 4319
resistance, *Puccinia dispersa* 1093
resistance, *Puccinia graminis secalis* 358
1093
soil, *Aspergillus flavus*/*Aspergillus niger*
433
soil, *Cochliobolus sativus* 2868
Urocystis occulta 4320
Rye germ,
culture medium, *Lactobacillus brevis* 4953
culture medium, *Lactobacillus delbrueckii*
4953
culture medium, *Lactobacillus plantarum* 4953
culture medium, *Leuconostoc mesenteroides*,
dextran 4953
Ryegrass,
+ *Rhizobium*, nitrogen fixation, acetylene
reduction assay 7272
annual, *Corynebacterium* 9801
Claviceps purpurea 4317
Italian, barley yellow dwarf virus 6225
Italian, *Drechslera* 285
Italian, *Erysiphe graminis* 285
Italian, fungal diseases 8641
Italian, *Fusarium nivale* 8641
Italian, *Helminthosporium* 8641
Italian, *Helminthosporium dictyoides* 7875
Italian, *Helminthosporium siccanis* 7875
Italian, *Puccinia coronata* 285
Italian, ryegrass mosaic virus 285
Italian, ryegrass mosaic virus, *Abacarus*
hystrix 6226
Italian, ryegrass mosaic virus, mite 1036
Italian, silage fermentation, formalin/fatty
acids 2601
Italian, silage, formic acid 207
Leptosphaeria nodorum 6236
perennial, barley yellow dwarf virus 6225
perennial, *Corticium fuciforme* 8641
perennial, *Drechslera* 285
perennial, *Drechslera dictyoides*, phylloplane
bacteria 7889
perennial, *Erysiphe graminis* 285
perennial, fungal diseases 8641
perennial, *Fusarium culmorum* 2708
perennial, *Fusarium nivale* 2708
perennial, *Fusarium nivale* + *Fusarium*
culmorum 2708
perennial, *Helminthosporium* 8641
perennial, *Helminthosporium dictyoides* 7875
perennial, *Helminthosporium siccanis* 7875
perennial, *Puccinia coronata* 285
perennial, *Puccinia graminis* 4334
perennial, rhizoplane microflora,
chloropicrin 457
perennial, ryegrass mosaic virus 285

Subject index

ryegrass(Contd),

perennial, silage, formic acid 207
 perennial, soil 443 444
 perennial, *Tilletia lolii* 7890
 perennial, *Urocystis agropyri* 4320
 perennial, *Urocystis tritici* 4320
Puccinia graminis 4334
 ryegrass mosaic virus, meristem tip culture 6413

Urocystis anropyri 4320
Urocystis tritici 4320

ryegrass mosaic virus,

Italian ryegrass, *Abacarus hystrix* 6226
 Italian ryegrass, mite 1036
 ryegrass 285
 ryegrass, meristem tip culture 6413

saccharification,

rye mash 6978

saccharization,

potato mash, *Aspergillus niger*, spirit 5181

saccharomyces,

acetoin 3344
Actinomyces recifensis lytic enzyme 2480
S-adenosylmethionine/methylthioadenosine 871 1687

animal feed/food, methanol 820

Aspergillus sojae flocculant 2534

B vitamins, microbial assay 4160

beverage proportioning pumps 4225

bread dough 1756

carbonated beverage 5239

culture 8292

cytochalasin A 633

diacetyl 3344

flocculation 6968

fruit syrup 5239

glutamate dehydrogenase 9402

mannan 3216

meat/meat product 8505

phacidin 10398

protein, alfalfa whey 6839

protein, animal feed 912

protein, food 912

restoration, dessication 3739

sake 3360

steroid secodiketones reduction 5102

urea hydrolysis, Berthelot colour reaction 6795

wine, alcohol dehydrogenase, fusel oil 3358

wine, glycerol 5178

wine, sorbic acid 9515

saccharomyces acidifaciens,

wine, glycerol 5178

saccharomyces apicolatus,

antibiotics 2170

saccharomyces baillii,

wine 7720

saccharomyces bayanus,

beer 7720

5-nitrofurylacrylic acid, wine 3359

wine, glycerol 5178

wine, sorbic acid 9515

saccharomyces bisporus,

honey 4218

soft drink 6093

saccharomyces carlsbergensis,

see also Brewer's yeast

alcohol 101

anhydromevalonic acid lactone 1272

antibiotic B371 5706

Aspergillus sojae flocculant 2534

autolysis 1716

beer 9506

beer, brewing 5174

beer wort, zinc, manganese 6972

Saccharomyces carlsbergensis(Contd),

continuous glucose fermentation 6969

culture apparatus, brewery 8438

culture, ethanol 781

culture, microbial film fermenter 3352

disintegration 2365

ethanol, microelements 8436

extract 5885

flocculation 5175

glutaraldehyde 6525

invertase 850 851

alpha-ketoglutaric acid, microelements 8436

membrane 1697

protein, animal feed 1766

protein, pasta product 3404

pyridoxine assay, beer/yeast 4160 6016

pyruvic acid, microelements 8436

sugar fermentation, esters 6970 6971

thiamine pyrophosphokinase 5974

volatile acid, microelements 8436

wine, glycerol 5178

Saccharomyces cerevisiae,

+ lysine, ethanol, fermentation 6012

+ rubidium, amphotericin B assay 5696

+ rubidium, nystatin assay 5696

+ *Trichoderma viride*, cellulase + protein 3239

+ vitamin, tablet 806

acetoin 3344

Actinomyces cinerosus yeast-lytic enzyme 2954

aculeacin A 10350

alcohol 101

alcohol dehydrogenase 1637

alcohol, ultrasound 8308

alcoholic fermentation, Vacuferm process 9502

amine oxide derivatives 10196

amphotericin B 2232

anhydromevalonic acid lactone 1272

antibiotic 792 9114

antibiotic H 537S12 5708

antibiotic TA 6621

antibiotics 2170

antigen 5138

antitumour antibiotic screening 5623

Aspergillus sojae flocculant 2534

assay, methyl partricin 645

autolysis 1716

autolysis, food 8312

autolysis, nucleic acid reduction 2435

azasterol 10354

Bacillus subtilis antibiotic 9028

bakery dust 9172

batch culture 7582

beer 94

beet sugar, iodoacetone bacteriostat 2616

biochemical fuel cell 3353

biomass 4986

biomass, carbon dioxide 2419

biomass, cellulose waste hydrolysate 6704

bread dough 1756

butylated hydroxyanisole 5592

butylated hydroxytoluene 5592

catalase 4071

Cheddar cheese whey wine 2548

chemostat *Saccharomyces cerevisiae* 1595

N-chlorocarboxylic acid derivatives 529

cinnamyl phenols 532

citrinin 5727

concentration control, viscosity 6797

continuous culture 7582 10622

continuous fermentation test 2395

continuous-flow cell cycle fractionation 6794

culture 1719 2396 4986 5860 6796 9295

culture, calorimeter 758

culture, computer 1598

culture, ethanol 781

Subject index

Saccharomyces cerevisiae(Contd),

culture, *Heliothis armigera* nuclear polyhedrosis virus 4994
 Curcuma zedoaria extract 3695
 cyclic dimedone derivatives 1264
 Dactylum dendroides antibiotic 2237
 Denmert 7210
 3,5-diacetoxycyclopent-1-ene hydrolysis 889
 diacetyl 3744
 Diplocladium elegans antibiotic 2237
 disinfectant testing 726
 disintegration 2365 10618
 disintegration, freeze-pressing 1596 1597
 DNA photolyase activator 2507
 dried 1623
 dried, dough 937 938
 enzymatically-active protein cell membrane complex 5912
 ergosterol, structure, proton magnetic resonance spectroscopy 9440
 esterase, beer 97
 ethanol/protein, cellulose waste 2544
 Eucalyptis leaf extracts 10166
 extract 5885
 fatty acid, glucose/hydrocarbon 5906
 fatty acid synthetase, beta-ketoacyl synthetase, assay 9408
 fermentation 4986
 fermentation, computer 6010 6011 9491
 flavour compounds 4136
 flocculation 5175
 5-fluorocytosine 10176
 5-fluorocytosine, protozoan culture medium 9C24
 food 1715
 food, acidified potato dextrose agar/non-acidified chlortetracycline potato dextrose agar 1591
 frozen dough, ethanol 3403
 frozen preservation, flow microcalorimetry 2982
 fungicide, Coulter Counter 4668
 galactokinase 6888
 genetics 4986
 glutamate dehydrogenase 9402
 L-glutamine D-fructose 6-phosphate amidotransferase 3280
 glutaraldehyde 6509
 glyceraldehyde-3-phosphate dehydrogenase, affinity chromatography 2472
 glycogen 5108
 hop oil emulsion, beer 5168
 hydrogen peroxide, culture medium sterilisation 8104
 immobilisation 1620
 immobilisation, calcium alginate gel 6819
 immobilised, microbe thermistor 9318
 invertase, immobilisation 826
 ketone reduction, alpha-hydroxy carboxylic acid/beta-hydroxy carboxylic acid derivatives 5150
 ketones 7690
 killer toxin 5279 5280
 lyophilisation 2983
 lyophilised cell wall 5016
 L-lysine 9337
 mannan 1686 3216
 mannan, immobilisation, concanavalin A-magnetite 8305
 membrane 1697
 membrane, food 1720 1721
 mercurial 2956
 24(28)methylene reductase 5077
 miconazole 6513
 mitochondrion 4030
 molasses fermentation, ultrasound 9519
 mutagen assay, fluctuation test 9296
 sodium dehydroacetate 7333
 5-nitrofurylacrylic acid, wine 3359

Saccharomyces cerevisiae(Contd),

nitroperhydropyridodiazepine derivatives 2976
 nymhimycin A1-scopafungin 644
 nystatin assay, flow calorimetry 5695
 n-oxypridyl thiol aluminium derivatives 749
 panjabi wares 4153
 peach wine fermentation, 2,4-dichloro-4-nitroaniline 7700
 Pellicularia sesakii/Pellicularia filamentosa cell wall-lysing enzyme complex 4072
 peptidyl factor, amino acids 9338
 phenyl-indole derivatives 6530
 phosphoglyceromutase 858
 polydimethylsiloxane foam breaker, brewing 5173
 preventol 7333
 propyl gallate 55y2
 protein 5037 8342
 protein, animal feed 1766
 protein, food 8339
 protein, food/animal feed 8471
 protein, heat-dried/lyophilised, food/animal feed 7726
 protein, mutation 823
 protein, nucleic acid content reduction, food 738C
 protein, pasta product 3404
 protein, RNA autolysis 9349
 proteinase inhibitor 8333
 RNase, RNA 6920
 sake 3361
 senoi 4163
 sporulation, sulphanilamide 8074
 sterol 6930
 storage, cytochromes 3741
 storage, viability 3740
 sugar fermentation, esters 6970 6971
 suspension culture 5819
 suspensions 10527
 tests 1593
 thallium 4669
 transketolase 5975
 trehalose 5108 5109
 triacylglycerol lipase 3323
 Trichoderma viride, cellulase 6875
 turbidity 3204
 uridine diphosphate N-acetylglucosamine pyrophosphorylase 5976
 whey fermentation, animal feed 7779
 wine 6977 8450
 wine, alcohol dehydrogenase, fusel oil 3358
 wine, glycerol 5178
 wine, hydrolysed whey 3357
 wine, sorbic acid 9515
Saccharomyces chevalieri,
 wine 6977
Saccharomyces coreanus,
 biomass-protein, soybean whey culture medium 6838
Saccharomyces delbrueckii,
 Aspergillus sojae flocculant 2534
Saccharomyces diastaticus,
 autolysis 1716
 extract 5885
Saccharomyces ellipsoideus,
 antibiotics 2170
 apple juice 1705
 enzymatically-active protein cell membrane complex 5912
 wine 8448
Saccharomyces elongosporus,
 steroid secodiketones reduction 5102
Saccharomyces fragilis,
 autolysis 1716
 cell wall lytic enzyme, Arthrobacter 9416
 cell wall, Thermoactinomyces vulgaris lytic enzyme 32
 disintegration 2365
 extract 5885

Subject index

accharomyces fragilis(Contd),

fruit cannery waste 911
 beta-galactosidase, low-lactose milk/milk product 7738
 beta-galactosidase, milk lactose 8486
 lactase, immobilisation, lactose hydrolysis 9412
 protein, pasta product 3404
 protein-vitamin concentrate, food/animal feed 3241
 protein, whey, food/animal feed 3381
 whey fermentation, animal feed 7779

accharomyces heterogenicus,

wine, glycerol 5178

accharomyces lactis,

beta-galactosidase, milk lactose 8486
 immobilised, beta-galactosidase 4087
 lactase, cheese 9555
 lactase, Lact-Aid, milk 4194
 lactase, low-lactose milk/milk product 7738
 protease, cheese 7004
 protein-vitamin concentrate, food/animal feed 3241

accharomyces mellis,

food 7719

accharomyces montanus,

soft drink 6093

accharomyces pastorianus,

antibiotic A231S7 2239
 antibiotic A-26771 139C

immobilised, invertase 3289

wine, glycerol 5178

accharomyces rosei,

acetoin 3344

Aspergillus sojae flocculant 2534

diacetyl 3344

accharomyces rouxii,

acetoin 3344

diacetyl 3344

food 7719

turbidity 3204

accharomyces sake,

killer toxin 5279

accharomyces uvarum,

+ vitamin, tablet 806

beer 94

beer, acetoin 96

sugar fermentation, esters 6970 6971

accharomyces veronae,

acetoin 3344

diacetyl 3344

accharomyces vini,

alcohol 101

ATP/hexokinase/phosphofructokinase, carbon dioxide 8449

accharomycetaceae,

protein, animal feed 912

protein, food 912

accharomycoides,

acetoin 3344

diacetyl 3344

accharomycopsis,

culture 8292

accharomycopsis lipolytica,

culture 9255

protease 7655

-Saccharopin,

Neurospora crassa 887

accharum,

Cephalosporium sacchari, aureofungin 8790

microbial disease, hot air treatment 7963

resistance, Gibberella moniliformis 8771

accharum officinarum,

Aspergillus niger 1885

bacterial leaf scald 6228

Cephalosporium sacchari 4347

Colletotrichum circinans 1885

Colletotrichum falcatum 6229 7133

Colletotrichum falcatum, sporulation 1001

Saccharum officinarum(Contd),

Curvularia 6229

Fiji disease virus 6227

Helminthosporium sacchari,

helminthosporoside, serinol 2629

Hyalostachybotrys sacchari 6228

microbial diseases, not water treatment 4478

Mycoplasma 5315

Phylospora tucumanensis 6229 6230

ratoon stunt, bacterium 7132

ratoon stunting 2709

resistance, Physalospora tucumanensis 6230

resistance, Ustilago scitaminea 3549

resistance, Xanthomonas albilineans 3549

Thielaviopsis paradoxa 1885

Ustilago scitaminea, plant protection 5332

6336

Ustilago scitaminea 3467

virus disease 1669

Saccharum spontaneum,

Claviceps purpurea 3486

Epicoccum andropogonis 3486

Safety cabinet,

10529

Safflower,

Alternaria carthami 6295

Cercospora carthami 305

Fusarium oxysporum, mangiferin seed treatment 7492

Phytophthora cryptogea 7170 9837

Phytophthora oechsleri 8726

Puccinia carthami 7934 9383 9839

Ramularia carthami 305

resistance, Phytophthora drechsleri 8726

seed mycoflora, seed treatment fungicide 8518

seeds, Fusarium oxysporum,

12,13-epoxytrichothecene/T-2

toxin/diacetoxyscirpenol 7839

Sagamin,

95C1

Sagrotan,

bactericide 8245

Saguaro virus,

sodium dodecyl sulphate 2397

Sainfoin,

+ rhizobium, nitrogen fixation 8910

Fusarium solani 4308

resistance, Fusarium solani 7203

Sake,

ethyl-alpha-D-glucoside 7702

Saccharomyces 3360

Saccharomyces cerevisiae 3361

Salad,

chicken, Staphylococcus enterotoxin B,

radioimmunoassay 6156

Salad dressing,

microbiology 9606

Salafur,

Staphylococcus 1309 3001

Salami,

bacteria, shelf-life 6065

Hungarian, mycotoxins 5261

Hungarian, mycotoxins, preservation/packaging 1800

Staphylococcus aureus, enterotoxin A 9741

Salicylanilide,

derivatives, Mycobacterium tuberculosis 5544

Salicylic acid,

antibacterial agent/antifungal agent 10190

Aspergillus niger 3698

Aspergillus terreus 3698

degradation, Rhizobium 6021

Salicylic acid anilide,

derivatives, antibacterial agent/antifungal agent 3726

N-Salicylsulphonyl amino acid,

derivatives, antibacterial agent 3683

Salinomycin,

9501

Subject index

Salinomycin(Contd),

4-methyl-, structure 10389
antimicrobial agent 3077
derivatives, mass spectrometry 3076
mass spectrometry 3076
numbering system 1384

Salix,

Alternaria 10018
Armillaria mellea 10018
Ascochyta 10018
Capnodium 10018
Cladosporium 10018
fungal diseases 10017
Gloeosporium salicis 10018
Marssonina salicis 10018
Melampsora 10018
microbial diseases 10018
Phyllosticta 10018
Pollaccia saliciperda 10018
Sphaceloma murrayae 10018
Uncinula salicis 10018

Salix alba,

Erwinia salicis, electrical resistance 8862

Salix babylonica,

Glomerella riyabeana 4542

Salmo gairdneri,

aflatoxins assay, corn 9704
irradiated/non-irradiated vacuum-packaged,
Clostridium botulinum toxin 7851
vacuum-packaged, gamma-irradiation,
microorganisms 5258

Salmon,

closed-system aquaculture, columnar
denitrification 4873
frozen, microorganisms 9585
microorganisms 9585
smoked, vacuum-packaged,
microbiology/preservation 968

Salmonella,

5-amino-5-deoxybutyrosin 1409
abattoir 5814
Actinomyces reifensis lytic enzyme 2480
activated sludge 6673
alpha-methyl-alpha-aminopropylpenicillin 1364
aminoglycoside antibiotics 1319
ammonium/potassium isobutyrate 1257
animal feed, propionic acid preservation
7046
animal feed, timeo-release capsule method
6030
antibiotic G-52 1398
antibiotics 2939 4721 8464 9040 9043
antibiotics resistance 4635 6475 6476 7300
8948
antibiotics resistance, R factor 8949
antiseptic 3137
aquarium fish/feed 1527
bismuth sulphite agar selective medium 10586
carbonamidoquinoxaline-di-N-oxide derivatives
1226
carcase meal 9622
catfish 7774
cattle slurry 2308
cephalexin/cephradine/cefactor 6578
cephalosporin derivatives 570 1342 1343 3017
3C18 3019 3769 9070
cephalosporin SQ 67,590 5662
cephalosporins 1324
Cheddar cheese 158
chicken 3398 8507
chicken, antibiotics resistance 7301
chicken carcass, cotton swab
sampling/alginate swab sampling 1745
chicken carcass, hygiene 7523
chicken carcass, gamma-irradiation 4238
chicken carcass, modified water rinse
sampling 6072
chicken, cold storage, polyphosphate 4239
chicken feed, chicken carcass 948
chloramphenicol 8161

Salmonella(Contd),

cinoxacin/ampicillin/chloramphenicol 7380
cocoa powder, enrichment medium, bactericide
7032
comminuted turkey meat 6073
culture medium 775
diaveridine 10149
dried yeast 2385
drinking water 3598
dry sausage 9560
egg 1744 6075
egg shell surface, hot water treatment 9672
egg, strontium selenite/strontium chloride
medium 164
egg white 7009
enrichment/indicator medium 3193
enrichment medium 4964 6784 7573
enrichment medium, malachite green +
Raapaport's medium 5652
enterotoxin 5284
enterotoxin, food 2558
environment 3095
environmental pollution 7465 8209
estuarine water, enrichment 7505
estuarine water, membrane filter + most
probable number test 722
faeces, selenite F broth 2386
farinaceous products 10500
fermented meat product 6082
fishmeal 1771
flagella, dark-field microscopy 3951
flagellar antigen, erythrocytic H-diagnostic
agents 7684
food 128 775 2557 3373 6027 6029 7465 8464
food, enrichment medium 7573
food, Enterotube/Pathotec Rapid I-D
System/Modified-Expanded R/E Enteric
Differential System/API-20 Enteric
System/Minitek Differential System 9534
food, enzyme-labelled antibody technique
6990
food, hygiene 2349
food, plating/enrichment media 3378
food poisoning 125 1713
food, Streptococcus group D enterocines 2559
food, timed-release capsule method 6030
formic acid 8317
frogs leos 4212
frozen chicken 7012
frozen meat 6075
frozen poultry 168
garlic 10143
gelatin, pre-enrichment medium 7723
gentamicins 9090
ground beef 175 9576
Haemophilus influenzae bactericidal factor
6844
housed swine unit air 1525
identification 2388
industrial product pollution 4848
Iranian sausage 185
isolation medium 6784
lake water 7504
liquid egg 3396
luncheon meat 9578
meat 8209
meat, butchers shop 7761
meat hygiene 7525
meat, hypochlorous acid 965
meat-packing plant effluent 6697
milk 4202
milk, pasteurisation 4236
minced meat 6084
minced meat products 6084
Minitek system 4965
MORLUC numeric system 1567
novobiocin selective medium 6785
O polyvalent/Vi antisera, quality control
3745
ormethoprim 10149

Subject index

Salmonella(Contd),

PathoTec system 7540
penicillin derivatives 1317
pig abattoir 9239
pig carcass 8260
pig manure, treatment 9206
pork carcass/pork product 1528
poultry carcass 2578 7762
poultry egg, dazomet 733
poultry, food poisoning 6071
poultry litter, direct
culture/immunofluorescence 2387
poultry processing plant water 7493
quahaug/shellfish-growing water 188
quinoxaline-1,4-dioxide derivatives 3689
rapid KCN-test 3170
Rappaport's enrichment medium 10587
river water 2338
safety-processed food 8469
salmonellin 8464
sausage 6084
sausage, enrichment medium 3401
sea water 9227
selective medium 3162
sewage 5779
sewage-polluted water, enrichment medium 10476
sewage-polluted water, selenite
F/Muller-Kauffmann tetrathionate isolation media 5799
sewage sludge, rotating aeration 678
sewage sludge, thermoradiation 3104
shellfish 4217
sodium acetate medium 7556
spices 1762
stream water 7504
substituted sulphonylacetamido cephalosporins 2204 2205 2206
sulphadimethoxine 10149
sulphadimethoxine-trimethoprim/ormethoprim/diaveridine 10149
sulphamethoxazole-trimethoprim 2941 7319
sulphaquinoxaline 10149
sulphaquinoxaline-trimethoprim/ormethoprim/diaveridine 10149
sulphathiazole resistance 6476
tests 1559 1565 4946
beta-2-thienylalanine assay 4937
Tribrissen (sulphadiazine + Trimethoprim) 2939
trimethoprim 10149
trimethoprim + sulphamide 3669
beta-ursolic acid 6532
veal calf carcass 1521
waste/surface water 1463
wastewater, soil irrigation 3874
wastewater treatment, soil 2302
water 5779
water, enrichment medium 3894
xylose lysine deoxycholate agar medium 9284
Salmonella abortus-equi,
endotoxin, assay, spectrophotometry 9724
Salmonella adelaide,
frozen meat 6075
Salmonella agona,
pig abattoir 9239
veal calf carcass 1521
Salmonella alagbon,
frozen meat 6075
Salmonella amersfoort,
frozen meat 6075
Salmonella anatum,
antibiotics 1307 2999
pig carcass 8260
sewage/water 5779
Salmonella arechavaleta,
frozen meat 6075
Salmonella arizonae,
differential plating medium 6786

Salmonella artis,

flagellar antigen, erythrocytic H-diagnostic agents 7684
Salmonella baguida,
frozen meat 6075
Salmonella bahati,
frozen meat 6075
Salmonella bareilly,
sewage/water 5779
Salmonella belem,
frozen meat 6075
Salmonella brandenburg,
environment 3095
environmental pollution 8205
meat 8209
meat, butchers shop 7761
minced meat 6084
minced meat products 6384
sausage 6084
Salmonella bredeney,
pig abattoir 9239
poultry egg, dazomet 733
Salmonella californica,
chicken 8507
Salmonella carrau,
frozen meat 6075
Salmonella chester,
pig abattoir 9239
Salmonella choleraesuis,
abattoir 5814
alpha-halogenated fatty acid 1255
antibiotic resistance transfer, sewage coliforms 6473
cephalosporin derivatives 5665
disinfectant 6726
nitrofuryl-vinyl-anilino-quinazoline derivatives 6504
pig carcass 8260
quaternary ammonium compound 2949 3905
triorganotin compounds/triorganolead compounds 2129
Salmonella choleraesuis vaccine,
6667
Salmonella derby,
germicide 6742
minced meat 6084
minced meat products 6084
pig abattoir 9239
pig carcass 8260
poultry carcass 7762
sausage 6084
waste composting 1459
Salmonella dublin,
antibiotics resistance 8948
cattle slurry 8230
cephalosporin R-sulphoxides 5637
culture medium 776
penicillin R-sulphoxides 5637
pig abattoir 9239
veal calf carcass 1521
Salmonella dublin vaccine,
6667
cytoadherence method 3832
Salmonella eastbourne,
sewage/water 5779
Salmonella egusi,
flagellar antigen, erythrocytic H-diagnostic agents 7684
Salmonella enteritidis,
6beta-acylamino-6-alpha-alkoxy penicillins 2173
7-(2-aminomethylphenylacetamido)-3-(1-carboxymethyltetrazol-5-ylthiomethyl)-3-cepham-4-carboxylic acid-cepham-4-carboxylic acid 7398
7beta-acylamino-7-alpha-alkoxy cephalosporins 2173
antibiotic No. K-73 3803
antibiotics 1307 2993 2999
benzo-1,2,4-triazines 1225

Subject index

Salmonella enteritidis (Contd),

- benzotriazine-1,4-dioxide derivatives 2091
- 2118
- ceftezole 5654
- cell wall lipid fatty acid, stable gas-liquid chromatocraphy column 6787
- cephalosporin derivative 1328
- cephalosporin derivatives 5605 9140
- cephalosporins 3016
- chicken, antibiotics resistance 7301
- composted sewage sludge, ionizing radiation 7483
- D-3,6-diaminohexanoic acid
- 2-(carboxymethyl)-2-methylhydrazine 2151
- dog feed 9423
- endotoxin, assay, spectrophotometry 9724
- flagellar antigen, erythrocytic H-diagnostic agents 7684
- kanamycin B derivatives 6596
- kanamycin derivatives 3785
- lake water 7504
- oxanicetin 3073
- phage typing 777
- sewage/water 5779
- stream water 7504
- streptomycin A 5763
- waste composting 1459

Salmonella fremantle,

- frozen meat 6075

Salmonella gallinarum,

- antibiotic A16284 6619

Salmonella gallinarum,

- antibiotic AV290 alkylated derivatives 1394
- antibiotic U-48266 4789
- freezing-thawing, culture medium 778
- nitrofuryl-vinyl-anilino-quinazoline derivatives 6504
- rancinamycin I/rancinamycin II/rancinamycin III/rancinamycin IV 5759
- Thalictrum rugosum alkaloid 2144
- 4-thiouracil 6453
- triorganotin compounds/triorganolead compounds 2129

Salmonella give,

- disinfectant 6727
- meat, butchers shop 7761
- pig abattoir 9239
- waste composting 1459

Salmonella glostrup,

- frozen meat 6075

Salmonella heidelberg,

- antibiotics 1307 2999
- chicken 8507
- phage typing 7574
- pig abattoir 9239

Salmonella hirschfeldii,

- cephalosporin derivative 1329

Salmonella indiana,

- pig abattoir 9239

Salmonella infantis,

- antibiotic No. K-73 3803
- Cheddar cheese 158 4207
- chicken 8507
- environment 3095
- meat, butchers shop 7761
- minced meat 6084
- minced meat products 6084
- pig abattoir 9239
- sausage 6084
- waste/surface water 1463

Salmonella israel,

- frozen meat 6075

Salmonella johannesburg,

- meat, butchers shop 7761

Salmonella jolo,

- flagellar antigen, erythrocytic H-diagnostic agents 7684

Salmonella kapemba,

- pig abattoir 9239

Salmonella kusangani,

- antibiotics 1307 2999

Salmonella langenhorn,

- frozen meat 6075

Salmonella litchfield,

- sewage/water 5779

Salmonella livingstone,

- meat, butchers shop 7761

Salmonella london,

- antibiotics 1307 2999

Salmonella manhattan,

- chicken 8507

Salmonella maricopa,

- frozen meat 6075

Salmonella meleagridis,

- sewage/water 5779

Salmonella minnesota,

- 1-[4-(alkoxyphenoxy)-butyl]-1-ethyl-piperidin-ium bromide 2577
- pyocin P1 7447
- resistance, pyocin P1 7447

Salmonella mission,

- frozen meat 6075

Salmonella montevideo,

- flagellar antigen, erythrocytic H-diagnostic agents 7684
- meat, butchers shop 7761

Salmonella muenchen,

- antibiotics 1307 2999
- chicken 8507

Salmonella nairobi,

- flagellar antigen, erythrocytic H-diagnostic agents 7684

Salmonella new-brunswick,

- Cheddar cheese 158 4207

Salmonella newport,

- antibiotics 1307 2999
- cepham derivatives 2200
- Cheddar cheese 158 4207
- chicken 8507
- poultry carcass 7762

Salmonella ohio,

- meat, butchers shop 7761

Salmonella onarimon,

- sewage/water 5779

Salmonella onireke,

- frozen meat 6075

Salmonella oranienburg,

- disinfectant 6727
- dried yeast 2385
- egg albumen 928
- lake water 7504
- stream water 7504

Salmonella panama,

- antibiotics resistance 8948
- chicken carcass, irradiation 9674
- environment 3095
- environmental pollution 8209
- meat 8209
- meat, butchers shop 7761
- minced meat 6084
- minced meat products 6084
- pig abattoir 9239
- sausage 6084
- waste/surface water 1463

Salmonella paratyphi,

- ampicillin 559
- antibiotic G-52 1397
- azetidinone derivatives 3687
- ceftezole 5654
- cephalosporin derivative 1329
- cephalosporin derivatives 1339 1341 2211 5665
- cephamycin derivatives 6575
- chloramphenicol 559
- disinfectant 6727
- disinfectants 8245
- epicillin 559
- formaldehyde 5523

Subject index

- Salmonella paratyphi**(Contd),
furazolidone 559
9-hydroxyellipticine 1229
imidazole derivatives, imidazole,
derivatives, antibacterial agent/antifungal
agent 2137
kasugamycin guanidino derivatives 3808
8-oxo-4-thia-1-azabicyclo[4.2.0]oct-2-ene-2-
carboxylic acid 8122
penicillin derivatives 1350
resistance, formaldehyde 5523
verdamycin 1 562
Salmonella paratyphi-Salmonella typhi vaccine,
4844
Salmonella preston,
frozen meat 4875
Salmonella pullorum,
chicken manure, composting 8222
egg, strontium selenite/strontium chloride
medium 164
nitroimidazole-pyrimidine derivatives 4661
pyrano-indole derivatives 7349
triorganotin compounds/triorganolead
compounds 2129
Salmonella saint-paul,
antibiotics resistance 6475
chicken 8507
pig abattoir 9239
Salmonella schottmuelleri,
cephalosporin derivatives 571 573 1316 1329
1337 1338 2212 8142 8143 9069
cephalosporins 2174 22C1
penicillanic acid derivatives 3040
penicillin derivatives 1316
penicillins 2174
rancinamycin I/rancinamycin II/rancinamycin
III/rancinamycin IV 5759
tetrahydro-cyclopropa(b)naphthalenes 4692
4-thiouracil 6653
Salmonella schwarzengrund,
chicken 8507
meat, butchers shop 7761
Salmonella senftenberg,
chicken 8507
dried yeast 2385
dry sausage 9582
phage typing 6788
pork pie 181
sausage 9583
sewage/water 5779
Salmonella shikohnah,
frozen meat 6075
Salmonella tennessee,
estuarine water, membrane filter + most
probable number test 722
Salmonella thompson,
antibiotics 1307 2999
chicken 8507
lake water 7504
stream water 7504
Salmonella typhi,
see also Typhoid
3-deoxydehydrostreptomycin 6594
ampicillin 559
antibiotics resistance 4635 5526 5529
antibiotics-resistant,
ampicillin/sulphamethoxazole-trimethoprim
7377
antihistamine 5549
arylsulphonylacetic acid hydrazide
derivatives 8985
N-benzylidenediphenylamine-2-carboxylic acid
hydrazide derivatives 10165
cefamandole 5652
ceftezole 5654
cephalosporin derivative 1329
cephalosporin derivatives 5665
cephalosporins 3766
chloramphenicol 559
chloramphenicol resistance 4635
Salmonella typhi(Contd),
disinfectant 6727
endotoxin, gel chromatography, light
scattering 9737
epicillin 559
cyclic-erythromycin A 6,9-hemiacetal
carbonate L-aspartate 5688
furazolidone 559
hydrazide derivatives 5557
monomycin 5682
nagamycin analogues 642
nitroimidazole derivatives 1270
4-nitrophenyl mercapto acetic acid hydrazide
7327
penicillin derivatives 1350
2-phenyl-1,2,3-triazole-4-carboxylic acid
hydrazide 7327
2-phenyl-1,2,3-triazole-4-carboxylic
acid-sulphonyl hydrazide 7327
plant essential oil 5548
preservatives 2157
pyrazole derivatives 5557
pyrimidine derivatives 562
resistance, antibiotics, polyamine 2098
sewage/water 5779
6-spirocycloalkylamino 5-nitropyrimidine
derivatives 2947
sulphanilamide-metal complexes 10148
sulphonylhydrazide derivatives 5557
tetracycline derivatives 622
beta-ursolic acid 6532
wastewater polluted food 8465
wastewater, soil irrigation 3874
Salmonella typhi-Salmonella paratyphi vaccine,
4844
Salmonella typhi vaccine,
bacterial endotoxin, Limulus amoebocyte
lysate test 7844
US opacity standard 3090
Salmonella typhimurium,
abattoir 5814
air-dried beef 173
ambodryl 2938
ampicillin + quinacrine/ethidium
bromide/tilorone/nitroakricin 4766
anthranilate
synthase-anthranilate-5-phosphoribosyltransferase 1640
antibiotic 333-25 1387 1388
antibiotic A16884 6519
antibiotic E-4² 5705
antibiotic TA 6621
antibiotics 1307 2999 10246
antibiotics resistance 6477 7300 8948
antibiotics resistance, R factor 8949
assay, Limulus lysate test 10551
Bacillus subtilis antibiotic 9028
benadryl 2938
benzo-1,2,4-triazines 1225
benzotriazine-1,4-dioxide derivatives 2091
2118
butylated hydroxy anisole, food preservative
958
cefatrizine 586
cephalosporin derivatives 1329 1335
cepham derivatives 2200
chelocardin anilino derivatives 3064 5726
chicken 8507
chicken, antibiotics resistance 7301
chicken carcass, chlorination + succinic acid
+ heat treatment 1787
chicken manure, composting 8222
chloramphenicol + ampicillin + streptomycin +
sulphonamide + tetracycline resistance 4642
chromium mutagenicity assay 7575
cocoa powder, enrichment medium, bactericide
7222
cream 1727
cycloalkyl-4-oxoquinoline-3-carboxylic acid
derivatives 2141

Subject index

Salmonella typhimurium(Contd),

cysteine desulphydrase, L-cysteine 6829
D-3,6-diaminohexanoic acid
2-(carboxymethyl)-2-methylhydrazine 2151
disinfectant 6727
econazole 2974
enantio-[1-valine]-malformin 3692
endotoxin, plasma, spectrophotometry 3440
environment 3095
environmental pollution 8209
food, enzyme-labelled antibody technique 6990
fosfomycin 2259
fosfomycin resistance 8965
iron oxidation 4613
gamma-irradiation, food sterilisation 9662
lake water 7504
laterosporamine 2261
meat 8209
meat, butchers shop 7761
methioninyl adenylate 4666
miconazole 2974
minced meat 6084
minced meat products 6084
mutagen assay 6776 10538
nitrofuryl-vinyl-anilino-quinazoline derivatives 6504
nuts, methyl bromide 8553
oligosaccharide-immunogen 7671
ornithine transcarbamylase 5080
oxazolidine derivatives 5553
penicillanic acid derivatives 4765
penicillin derivatives 1350 1352 1353
penicillins 3777
phage typing 8284
pig abattoir 9239
pig, bambermycins feed 205
pig,
chlortetracycline/sulphamethazine/penicillin feed 206
pigeon farm 3925
piperazinyl-oxopyrido-pyrimidine derivatives 2946
poultry egg, dazomet 733
sausage 6084
silver nitrate 2937
smoked eel, food poisoning 2586
stream water 7504
streptomycin A 5763
taurolin 4667
triphenyl tetrazolium chloride indicator plate 6757
turkey, chlortetracycline feed 7041
tyrosine-inhibitable
3-deoxy-D-arabinoheptulosonic acid-7-phosphate synthase 3266
enantio-[1-valine]malformin 4655
veal calf carcass 1521
waste/surface water 1463

Salmonella typhimurium vaccine,
5771 7671 10428 10432

Salmonella typhosa,

5-hydroxy-1-[[[5-nitro-2-furanyl)methylene]amino]-2,4-imidazolidinedione 7321
aminocarbotrithioates 1263 1264
antibiotic A16884 6619
antibiotic XK-90 5710
cephalosporin derivatives 1313 2209 3006
D-3,6-diaminohexanoic acid
2-(carboxymethyl)-2-methylhydrazine 2151
fortimicin A 8181
hydrazino-pyridine derivatives 2139
kanamycin B derivatives 6596
kanamycin derivatives 3785
lividomycin B derivatives 1422
oxamicetin 3073
penicillin derivatives 1313 3006
quaternary ammonium compound 2949
s-triazinyl aryl/alkyl sulphones 1215

Salmonella typhosa(Contd),

thiocarbamoyl sulphenamide derivatives, detergent 9228
xylenol derivative, antiseptic 10488

Salmonella uphill,
frozen meat 6075

Salmonella veltevreden,
sewage/water 5779

Salmonella wichita,
frozen meat 6075

Salmonellin,

Salmonella 8464

Salt,

sea, microorganisms, polluted water 10501

Salt marsh,

bacteria, malathion degradation 6413
microorganisms + Spartina alterniflora, nitrogen fixation 7269
microorganisms, toxicants 10072

Salt meat products,

mycotoxins 8564

Salted fish,

microbiology 186

Salting,

Parma ham, microorganisms 9577

Samarosporin,

Streptomyces, antibacterial agent/antifungal agent 4824

Sampler,

beer, yeast 8446
deep sea microorganisms 6762
microorganisms 6761
slit-impact air, microorganisms 6670

Sampling apparatus,

liquids 764

Sampling system,

microbiological 2363

Sand hill decline,

rough lemon 5357

Sandal,

sandal spike, mycoplasma-like organism, plant protection 5464
sandal spike, plant protection 7241

Sandal spike,

mycoplasma-like organism, sandal, plant protection 5464
sandal, plant protection 7241

Sandoz,

seed dressing, Erwinia carotovora, corn 8827

Sanitation,

aircraft food 6739
antibiotic A23187 2239
Ceratocystis ulmi, elm 416
confectionery plant 745
food 9237 10497
food industry 737
food processing plant 10498
food utensils 7713
ground water 6721
holiday institution 6732
laundry washing machine 4892
milking machine 3924
poultry hatchery 9236

Sanitization,

hypochlorite, beef 8549

Sanitizer,

bactericide/fungicide, isothiazole derivatives 1268
beef 7767
low-foaming non-ionic surfactant antimicrobial agent 4890
Mycoplasma agalactiae, cattle 735

Sansevieria,

Phyllosticta sansevieriae 2663

subject index

antatum album,

sandal spike, mycoplasma-like organism, plant protection 5464
asperda inornata,
 Hypoxylon mammatum, aspen 5454
aponaria vaccaria,
 carnation streak virus 1914
aponin,
 Drechslera avenacea, oat 277
 Primula acaulis, antifungal agent, Candida 2120
apota,
 Pestalotiopsis versicolor 2774
aprol,
 Puccinia sorghi, corn 9963
aprolegnia,
 antibacterial agent, carbenicillin 3026
aprolegniales ferax,
 river water 3134
aprolegniales parasitica,
 river water 3134
arcina,
 bacteriocins 2439
 egg 7008
 beta-ursolic acid 6532
 vacuum-packaged smoked salmon 968
arcina aurantiaca,
 co-enzyme A 2506
arcina lutea,
 2-substituted iodo alkenyl compound 2110
 3-deoxydehydrostreptomycin 6594
 7-deoxysteffimycinone 8193
 amino acid sulphilimines 2111
 antibiotic 19 402 R.P. 3798
 antibiotic 1745A/X 10337
 antibiotic 792 9114
 antibiotic A16884 6619
 antibiotic A-26771 1390
 antibiotic AV290 alkylated derivatives 1394
 antibiotic DE-3936/lonomycin 2242
 antibiotic KM-214 2243
 antibiotic No. K-73 3803
 antibiotic P-3355 2244
 antibiotic U-48266 4789
 antibiotics assay, milk 5206 8479
 aplasmomycin 5717
 assay, lincomycin residues, animal tissues 2227
 assay, sulphonamide, milk 143
 asukamycin 5719
 cairomycin B 6630
 ceftazole 5654
 chalcone analogues 8071
 cinnamyl phenols 532
 co-enzyme A 2506
 cysteine desulphydrase, L-cysteine 6829
 damavaricin 634
 dimethylaminoethyl-alpha-phenyl-cinnamate derivatives 6502
 enterocin 1415
 feldamycin 5734
 frozen erythrocytes 1293
 furancarabamic acid esters 2143
 gramicidin A/gramicidin A analogues 4804
 p-hydroxybenzoic acid ester silicon derivatives 5551
 iodopolymers 1258 1259
 iron oxidation 4613
 juvenimicins 7433
 kanamycin B derivatives 6596
 kanamycin derivatives 3785
 lipase, Cheddar cheese, 157
 lividomycin B derivatives 1422
 magnesidin 3810
 medermycin 4812
 milk assay, heat-sensitive inhibitors 6041
 negamycin analogues 642
 nocardicin A 1434
 nyphimycin A1-scopafungin 644
 oxamicetin 3073

Sarcina lutea(Contd),

n-oxyppyridyl thiol aluminium derivatives 749
 penicillanic acid derivatives 636
 penicillin assay, milk 2565
 rancinamycin I/rancinamycin II/rancinamycin III/rancinamycin IV 5759
 sarcinaxanthin/sarcinaxanthin
 mono-beta-D-glucoside/sarcinaxanthin
 diglycoside, structure 9469
 sporamycin 6940 8420
 streptomutin A 5763
 Streptomyces orientalis 3082
 streptovaricin isomers 1442
 4-thiouracil 6653
 trimethoxybenzoylamino acid derivatives 8095
 xylostasin 654
Sarcina ureae,
 triorganotin compounds/triorganolead
 compounds, Streptococcus faecalis,
 triorganotin compounds/triorganolead
 compounds 2129
Sarcinaxanthin,
 Sarcina lutea, structure 9469
Sarcinaxanthin diglycoside,
 Sarcina lutea, structure 9469
Sarcinaxanthin mono-beta-D-glucoside,
 Sarcina lutea, structure 9469
Sarcoma,
 NF₂ carbamoyl mycophenolic acid ethylester
 874
Sarcoma 37,
 Proteus mirabilis lipopolysaccharide 3337
Sarcoma 180,
 antibiotic 27,706 RP 4125
 antibiotic OS-3256-B 9456
 carbamoyl mycophenolic acid ethylester 874
 damavaricin C derivatives 5947
 Proteus mirabilis lipopolysaccharide 3337
Sarcoma 180 solid tumour,
 sporamycin 8420
Sarcosine dehydrogenase,
 Pseudomonas putida 2461
Sassafras,
 Phlebia chrysocrea 418
Sathgudi,
 citrus mosaic virus, Hibiscus rosasinensis
 1934
 yellow corky vein virus 1046
Satratoxin H,
 Stachybotrys atra, structure 7073
Satsuma,
 citrus crinkly leaf virus, citrus infectious
 variegation virus 9830
Satsuma mandarin,
 Penicillium digitatum/Penicillium
 italicum/Alternaria citri post-harvest
 decay, fungicide DF-125 5400
Sauce,
 soy, Aspergillus oryzae 9604
 soy, Aspergillus oryzae enzymes 5183
 soy, Aspergillus oryzae enzymes 5183
 soya 1715
 tomato, Vibrio parahaemolyticus 1763
Sauerkraut,
 2593
 Chinese fermentation jar 4222
 microbiology 7028
 Rhodotorula glutinis 7720
Sauerkraut brine,
 treatment, Candida utilis, Aspergillus niger
 6701
Sausage,
 aseptic slicing 8525
 bacteriology 1749 9579
 Citrobacter freundii, novobiocin selective
 medium 6785
 dry, bacteriology 3400
 dry, fermentation 5233
 dry, microbiology 9580 9582
 dry, Micrococcaceae 182

Subject index

Sausage(Contd),

- dry, *Micrococcus*, nitrate reduction 9581
 - dry, *Vibrio*, nitrate reduction 9581
 - dry, yeasts 7770
 - emulsion, bacterial counts 2584
 - Escherichia coli*, novobiocin selective medium 6785
 - fermented, *Pediococcus acidilactici* 7018
 - formfleisch, bacterial starter 183
 - frankfurter, bacterial starter culture 7017
 - frankfurter, sterilisation 1793
 - German, microbiology 184
 - heat treatment, *Pseudomonas/Micrococcus* 220
 - Iranian, bacteriology 185
 - liver, sterilisation 1793
 - mettwurst, preservation 8550
 - Microbacterium thermosphactum* 6081
 - Micrococcus*, pork fat lipolysis 930
 - mycotoxins 8564
 - Pediococcus cerevisiae* 1752
 - polyphosphate hydrolysis, *Micrococcus/Lactobacillus* 2585
 - Proteus mirabilis*, novobiocin selective medium 6785
 - radurized Vienna, *Moraxella/Acinetobacter* 2615
 - Salmonella* 6084
 - Salmonella*, enrichment medium 3401
 - Salmonella*, hygiene 1528
 - Salmonella*, novobiocin selective medium 6785
 - Salmonella* senftenberg 9583
 - Staphylococcus aureus* enterotoxin D, food poisoning 245
 - starter bacteria, hygiene 1751
 - vacuum packaged frankfurter, bacteriology 7016
- ## Saussurea lappa,
- antibacterial agent/antifungal agent 6523
- ## Savlon,
- Agrobacterium tumefaciens, *Chrysanthemum morifolium* 1920
- ## Scab,
- Fusicladium effusum*, pecan, benomyl 4519
 - Sphaceloma*, cassava 7909
 - Streptomyces*, red beet 6253
 - Streptomyces scabies*, potato 4996
 - Venturia inaequalis*, apple 1899 2718 2719 4290 4291 4292 5345 5346 5347 9825
 - Venturia inaequalis*, apple, 2-aminopyrimidine derivatives 395
 - Venturia inaequalis*, apple, benomyl + oil adjuvant 2791
 - Venturia inaequalis*, apple, benomyl tolerance 5431
 - Venturia inaequalis*, apple, benzimidazole resistance 398
 - Venturia inaequalis*, apple, benzimidazole tolerance 3571 7213
 - Venturia inaequalis*, apple, diphenyl pyrazolium derivatives 1114
 - Venturia inaequalis*, apple, fungicide 2795 2796
 - Venturia inaequalis*, apple, pyrazolium derivatives 2812 3581 4511
 - Venturia inaequalis*, apple, resistance 4454 5347
 - Venturia inaequalis*, apple, *Spilosea pomi* conidia 1896
 - Venturia inaequalis*, apple, thioallophanate derivatives 391
 - Venturia inaequalis*, apple, tri-2-norbornyltin derivatives 6363
 - Venturia inaequalis*, apple, triforine 3586
 - Venturia inaequalis*, benzimidazole fungicide, apple 9980
 - Venturia inaequalis*, crabapple, resistance 3553
 - Venturia pirina*, pear 2726
 - Venturia pirina*, pear, fungicide 2795 2796

Scald,

- khynchosporium secalis*, barley 6209

Scalding tank water,

- heat-resistant bacteria 1530

Scallops,

- microorganisms 9585

Scaphytopus nitridus,

- Spiroplasma citri*, sweet orange 9831

Schizaphis graminum,

- barley yellow dwarf virus, barley 4322

Schizomycetes,

- 1,2-dehydrogenation, D-homosteroid 5978

Schizophyllum commune,

- cholesterol oxidase 9374
- esterase, cephalosporins 8132
- phenoloxidase, benzidine 1669
- tetrad analysis 10615
- trees 9996
- wood degradation, agar-stick breaking-radius test 4550
- wood preservative 8865

Schizosaccharomyces,

- acetoin 3344

- diacetyl 3344

Schizosaccharomyces pombe,

- + butyric acid bacteria, rum 5182
- ascospores, replica-plating 9297
- ballistic disintegration 9257
- continuous-flow cell cycle fractionation 6794
- flocculation 5861
- grape, wine 9513
- mitochondrion 4030
- synchronous culture 10517

Schrankia uncinata,

- nodulation/nitrogen fixation 2878

Schwanniomycetes,

- acetoin 3344

- diacetyl 3344

Schwanniomycetes occidentalis,

- acetoin 3344

- diacetyl 3344

Scilla hyacinthiana,

- Uromyces scillarum* 2662

Scirrhia acicola,

- longleaf pine 8851

- pine 10003

Scirrhia pini,

- Austrian pine 9998

- pine 10003

- shore pine 4547

Sclerin,

- Sclerotinia sclerotiorum* 3349 3350

Scleroderma,

- yellow death, Merkus pine 8845

Scleroderma aurantium,

- ergosterols 4033

- lanostanediols 4033

- linoleic acid 4033

- mannotol 4033

- palmitic acid 4033

- steroids 4033

- triglycerides 4033

Scleroderma lagerbergii,

- Austrian pine 9998

- Corsican pine 2844

- lodgepole pine 2839

- pine 2834

Sclerophoma pityophila,

- fungicide 2053

Sclerophoma pythiophila,

- Scots pine seed 9997

Sclerophthora macrospora,

- barley 4335

- bromegrass 4335

- corn 4335

- lovegrass 4335

- rice 3484

- stinkgrass 4335

- wheat 4335

Subject index

Sclerophthora macrospora (Contd),

witchgrass 4335

Sclerophthora rayssiae,

corn, fungicide 6356

Sclerospora,

corn 4330

Sclerospora graminicola,

pearl millet 1021 1026

pearl millet, resistance 2784

Sclerospora sorghi,

corn 2695 7884

sorghum 1037

Sorghum bicolor 287

sorghum, zinc + maneb 1107

sorghum, potassium azide 3575

Sclerotinia,

bentgrass, fungicide 8795

dichlorophenyl derivatives, plant protection

5428

dichlorophenyl derivatives, plant protection

5428

plant disease, fungicide 7222

triazino-benzimidazole derivatives, plant

protection 3598

Sclerotinia borealis,

triazine derivatives, plant protection 8821

turfgrass, fungicide 4485

Sclerotinia cinerea,

antitibiotic OS-1804 10345

Sclerotinia fructicola,

alkyltin cyclopropyl derivatives 1260

benzimidazole resistance, plant protection

7204

peach, benzimidazole fungicide tolerance

8798

Sclerotinia laxa, Prunus 1900

slimicide, industrial water system 3124

Sclerotinia homoeocarpa,

dollarspot, phthalonitrile 3579

turfgrass, fungicide tolerance 8796

Sclerotinia laxa,

apricot 1900

cherry 1900

nectarine 1900

peach 1900

plum 1900

quince 1900

Sclerotinia libertiana,

sunflower 9943

Sclerotinia minor,

lettuce 3514

phospholane/phosphite derivatives 3576

Sclerotinia porri,

leek 7920

Sclerotinia sclerotiorum,

2-amidocarbonylthiobarbituric acids 2027

amipurimycin 9124

bean 1842 8605

bean, thioureidobenzene phosphates 2014

Brassica 8723

cabbage 8723

cauliflower, benomyl 306

chilli 2733

crucifer, polymethylgalacturonase/cellulase

3508

endo-beta-1,4-galactanase, plant cell

walls/tissues 9390

Helminthosporium sativum toxin 2630

orange post-harvest decay, fungicide 6318

oxazolidine derivatives 3703

pea, scanning electron microscopy 6173

pectin esterase 9429

pectolytic enzymes 9429

pectolytic enzymes, bean 4303

Sclerotinia sclerotiorum (Contd),

phospholane/phosphite derivatives 3576

phosphoryl phenylglutamine derivatives 1118

exo-polygalacturonase 9429

potato, scanning electron microscopy 6173

rapeseed 8723

red clover, pterocarpin/isoflavone 1846

sclerin 3349 3350

soil 2872

soil/lettuce 2070

soybean 9769

sunflower 333 87x4

sunflower seed 1957

tomato, benomyl 306

tomato, plant protection 5392

Sclerotinia trifoliorum,

alfalfa 8601

Sclerotium,

corn 7882

peanut, fungicide 266

soil 3622

water lily 5395

white water lily 8659

wild rice 4344 8659

Sclerotium bataticola,

+ Fusarium moniliforme/Gibberella

zeae/Helminthosporium carbonum/Nigrospora

oryzae, corn 9787

aculeacins 8175

sunflower 9943

Sclerotium cepivorum,

onion 4399

onion, fungicide 7974

onion, fungicide seed treatment 7991

Sclerotium oryzae,

chalmogra oil 386

cinnamon oil 386

detergent 386

rice, dextranase 1835

rice, fungicide 284

Sclerotium rolfsii,

ammonium/potassium isobutyrate 1257

apple, plant protection 7136

bean 1842

bittergourd 7143

brinjal, cyano(methylmercuri)guanidine 2011

Caladium bicolor, fungicide 8799

carrot 7142

chalmogra oil 386

cinnamon oil 386

corn 8635 8636

cotton, biological control, Trichoderma

viride, S-methyl dipropylthiocarbamate 6354

cowpea 1849

creeping bentgrass 5319

Curcuma zedoaria extract 3695

detergent 386

fensulfothion 2086

greensward 1062

iris, methyl

bromide/pentachloronitrobenzene/methyl

bromide + pentachloronitrobenzene 9967

lentil, seed treatment fungicide 4523

Ornithogalum virens 1071

peanut 1015

peanut, cyano(methylmercuri)guanidine 2011

peanut, dinoseb 9957

peanut, fungicide 9960

peanut, oxadiazon 9957

plant extracts, plant protection 9956

Polyanthes tuberosa, fungicide 8799

Polyanthes tuberosa leaf culture 6799

pumpkin 2755

rhizopin 1438

soil 2883

soil, fungistasis, ethylene 2861

soil, nitrogen fertilizer, plant protection

6347

strawberry 7142

sugarbeet, BAS 3050 F 1110

Subject index

Sclerotium rolfsii(Contd),

- sugarbeet, pentachloronitrobenzene seed treatment 2034
- thiabendazole, plant protection 2818
- tomato 8740
- tomato fruit rot 3545
- tomato, plant protection 5392 9951
- wheat 4349
- white clover, biological control, *Trichoderma viride*, S-ethyl diisopropylthiocarbamate 6354

Sclerotium tuliparum,

- beta-galactosidase 29

Sclotobasidium,

- bottle gourd seed, seed treatment fungicide 8682

Scolytus multistriatus,

- Ceratocystis ulmi*, elm, plant protection 4533

Scolytus scolytus,

- Ceratocystis ulmi*, elm, plant protection 4533

Scopafungin-nyphimycin A1,

- actinomyces hygroscopicus, antibacterial agent/antifungal agent 644

Scopathricin,

- Botrytis cinerea* 4669

Scopolin,

- potato, *Fusarium solani* 3522
- potato, *Phoma exigua* 3522
- potato, *Phytophthora infestans* 3522

Scopulariopsis brevicaulis,

- corn, ammonia 2769
- forage post-harvest decay 8747
- mire rubberized ventilation tube 4180
- phacidin 10398
- plastics degradation 2553
- soil 6423
- uricase 53 54
- wood 7242

Scopulariopsis fusca,

- oil palm kernels 4220

Scorch,

- Kabatella caulivora*, subterranean clover 6185

Scour,

- ammonium/potassium isobutyrate, animal feed 1257

Screening device,

- air bacteria 1510

Scrophulariaceae,

- belladonna mottle virus 5363

Scum drag,

- manure degradation, methane 1183

Scytalidin,

- wood preservative, *Graphium* 4555

Scytalidium,

- Norway spruce 8004
- Norway spruce, *Fomes annosus* 7237

Scytalidium album,

- Fomes annosus*, wood 6405
- Stereum sanguinolentum*, wood 6405

Scytalidium lignicolum,

- Fomes annosus*, wood 6405
- Stereum sanguinolentum*, wood 6405

Scytalidium lignicolum(n),

- protease A1 2498
- protease A-1 2499
- protease A-2 2498 2499
- protease B 2499

Scytalidium uredinicola,

- Cronartium fusiforme*, loblolly pine 5453
- Cronartium fusiforme*, slash pine 5453

SD 2280,

- soil, degradation 455

Sea,

- water, bacteria 4886
- water, bacteria, metal-binding surface-active polymers 460
- water, fungi 4886
- water, petroleum-degrading bacteria 4886

Sea salt,

- microorganisms, polluted water 10501

Seafood,

- disinfection/sterilisation, iodine + polyvinylpyrrolidone 967
- fresh, microorganisms 9585
- frozen, microorganisms 9585
- low-pressure air evacuation, preservation 3422

- Vibrio parahaemolyticus* 7773 8461 8510

- Vibrio parahaemolyticus*, condiments 9588

Sealant,

- polyvinylchloride, fungal degradation 4279

Secale cereale,

- Claviceps purpurea* 1882
- Fusarium nivale* 4315
- nutritive value assay, *Aspergillus flavus* 5855

- Puccinia dispersa* 2707 4315

- Puccinia graminis* 272

- Puccinia graminis secalis* 4319

- resistance, *Puccinia graminis secalis* 358

- soil, *Aspergillus flavus/Aspergillus niger* 435

- soil, *Cochliobolus sativus* 2868

- Urocystis occulta* 4320

Secale cornutum,

- Claviceps purpurea*, ergot 1883

Secalonic acid A,

- structure 2421

Secalonic acid B,

- Aspergillus aculeatus* 7832

Secalonic acid F,

- Aspergillus aculeatus* 7832

Sectioning,

- fungal fructification, scanning electron microscopy 3197

Sediment,

- bacteria, petroleum degradation, numerical taxonomy 10109
- bacterial count, tetrazolium chloride 7536
- lignin degradation 4174
- marine, bacteria, petroleum degradation 10111
- marine, coliforms, dredging 10484
- microbial biomass, muramic acid assay 7506
- river water, ethylenediaminetetraacetate, microbial degradation 7250

Sediment-water system,

- denitrification 9225

Sedimentation,

- aluminium sulphate, *Beauveria bassiana* conidia 5158
- calcium phosphate, foot-and-mouth disease virus 5868

Sedimentation chamber,

- mouldy hay actinomycetes 3163
- mouldy hay fungi 3163

Seed dressing,

- bactericide, *Erwinia carotovora*, corn 8827
- bavistin, *Rhizoctonia bataticola*, chilli 6370

- benomyl, *Helminthosporium solani*, potato 7993

- dihydroxydinaphthylmethane fungicide, plant protection 4509

- fungicide, BAS 3191 F 1109

- fungicide + dichloromethane, soybean 2031

- fungicide, formamide derivatives 7336

- fungicide, fungi, jute seed 2825

- fungicide, *Fusarium oxysporum*, pea 1012

- fungicide, *Helminthosporium sativum*, wheat 2032

- fungicide, isothiazole derivatives 1268

- fungicide, medicinal plant 3569

- fungicide, phospholane/phosphite derivatives 3576

- fungicide, *Puccinia maydis*, corn 2800

- fungicide, radiata pine, mycorrhiza 6382 7989

Subject index

Seed dressing(Contd),

fungicide, *Rhizobium*, seed dressing fungicide 2029
 fungicide, *Thielavia terricola*, sesame 381
 fungicide, *Tilletia caries*, tolerance, wheat 7225
 fungicide, *Tilletia foetida*, tolerance, wheat 7225
 fungicide, triorganotin compounds/triorganolead compounds 2129
 fungicide, *Ustilago tritici*, wheat 5440
 mercury chloride fungicide, *Fusarium oxysporum*, pea seed 1856
 microbial diseases, rice 1029
 pyracarbolid, *Rhizoctonia solani*, potato 3585
 thiabendazole, *Helminthosporium solani*, potato 7993

Seed treatment,

antibiotics, oat 10236
 aureomycin, *Xanthomonas campestris*, Brussels sprout 8830
Bacillus subtilis, *Fusarium solani*, Austrian pine 100C1
Bacillus, *Tilletia caries*/*Tilletia foetida*, wheat 4525
 benomyl, *Leptosphaeria maculans*, rape 3598
 benomyl, *Rhizoctonia solani*, potato 4526
 benzimidazole derivative + 2-(thiocyanomethylthio)-benothiazole fungistat, plant protection 9994
 biological control, *Fusarium culmorum*/*Drechslera sorokiniana*/*Rhizoctonia solani*, oat 1099 1099
 2-bromo-2-nitropropan-1,3-diol, *Helminthosporium rostratum*, wheat 4524
 carbamoyl benzimidazole derivatives, plant protection 7988
 clorox, sugarbeet, *Fusarium oxysporum*/*Phoma betae* 332
 fungicide, bean 1859 7990
 fungicide, bottle gourd 8682
 fungicide, *Colletotrichum lindemuthianum*, lablab 2824
 fungicide, fungal diseases, sugarbeet 2034
 fungicide, *Fusarium culmorum*/*Drechslera sorokiniana*/*Rhizoctonia solani*, oat 1120 1120
 fungicide, legume, *Rhizobium*, resistance 7273
 fungicide, *Phoma betae*, sugarbeet 8839
 fungicide, *Phoma lingam*, cabbage seed 8837
 fungicide, *Puccinia carthami*, safflower 9888
 fungicide, *Pythium ultimum*, cotton 9992
 fungicide, *Rhizoctonia solani*, cotton 8836 9992
 fungicide, *Rhizoctonia solani*, okra 9993
 fungicide, *Rhizoctonia solani*, potato 2033
 fungicide, safflower seed mycoflora 8838
 fungicide, *Sclerotium rolfsii*, lentil 4523
 fungicide, soybean 1859
 fungicide, *Ustilago nuda*, barley 6377
Geniculodendron pyriforme, Sitka spruce 7238
 kasugamycin, *Pseudomonas phaseolicola*, bean 6379
 legume, *Rhizobium* 445
 mangiferin, *Fusarium oxysporum*, safflower 7992
 microwave irradiation, *Erwinia carotovora*, tobacco 9990
 penicillin G, *Bacillus subtilis*, soybean 8615
 phenyl mercuric acetate, *Fusarium*, wheat 6378
 pyroxychlor, *Phytophthora megasperma*, soybean 2030
Pythium oligandrum, sugarbeet, *Pythium debaryanum*/*Pythium debaryanum* biological control 9991
Rhizobium + fungicide, soybean 10070
 soybean, *Rhizobium* 8031

Seed treatment(Contd),

streptomycin, *Pseudomonas phaseolicola*, bean 406 6379
 sulphuric acid scarification, *Stylosanthes*, *Colletotrichum gloeosporioides* + fungi 5314
 triflorine, *Erysiphe graminis hordei*, barley 2826
 wheat, antifungal agent 407
Seedling rust,
Puccinia carthami, safflower 9889

Seldomycin,

2171 9501
Streptomyces hofunensis 9150
Streptomyces hofunensis, antibacterial agent 9149
 structure 9151 9152

Selective broth,

Streptococcus group B 3998

Selenation,

Escherichia coli tRNA 7674

Selenide,

dimethyl-, *Fusarium*, soil 4144
 dimethyl-, microorganisms 4145
 dimethyl-, *Penicillium*, sewage 4144
 dimethyl-, soil microorganisms 4145 4559
 soil 887C

Selenite F broth,

Salmonella, faeces 2386

Selenite F medium,

Salmonella, sewage-polluted water 5799
Shigella sonnei, human faeces 5553

Selenium,

assay, *Clostridium sporogenes* 10555
 sewage *Penicillium*, dimethylselenide 4144
 soil *Fusarium*, dimethylselenide 4144
 soil, microbial volatilisation 8870
 transformation, microorganisms 4145
 transformation, soil microorganisms 4145
 volatilization, soil microorganisms 4559

Selenobiotin,

microbial culture medium 7532

Selenomonas,

chlorhexidine 10152
 swine faeces,
 culture/isolation/identification medium 4938

Selenomonas ruminantium,

rumen, ATP 6782

Selenophoma donacis,

barley 4329

Selenosemicarbazone,

derivatives, influenza virus 7344

Semibatch culture,

microbial amino acid 816

Semliki Forest virus,

BL-3849A 2124
 carbazole derivatives 8090
 continuous-flow ultracentrifugation 3206
 liquid antibody microculture plaque assay 10626
 RNA complexes 8084

Semul,

Ceraceosorus bombacis 1910
Dicellomyces bombacis 1910

Sendai virus,

4013
 haemagglutination/haemagglutination-inhibition, lyophilised chick erythrocytes 1606
 liquid antibody microculture plaque assay 10626

Sendi,

Saccharomyces cerevisiae 4163

Senecio,

Puccinia lagenophorae 6250

Senescence prevention,

Podospira anserina, tiamulin 5765

Sensor,

luminescence, luminescent microorganism 1547

Subject index

- Sepedonium**,
cotton seed 2737
enzymes 9350
- Sephadex gel**,
exclusion chromatography, virus indexing,
plant disease 249
- Sephrose**,
blue dextran-, affinity chromatography,
Escherichia coli isoleucyl-tRNA synthetase
5074
- Sepso-tincture**,
skin disinfectant, antimicrobial agent 10494
- Septamycin**,
numbering system 1784
- Septic tank**,
effluent, denitrification, Thiobacillus
denitrificans 1464
sewage 1481
sewage treatment 707 3871
waste treatment 4862
wastewater treatment 1475 8232
- Septicaemia**,
Bactec system 1554
Gram stain 4930
- Septoria**,
8291
celery, cupric hydroxide 6259
copper fungicide, plant protection 8807
eastern cottonwood, resistance 5457
triazino-benzimidazole derivatives, plant
protection 3588
- Septoria apii**,
benzimidazole resistance, plant protection
7204
carbamate derivatives 510
N-phenyl maleic imide derivatives 393
- Septoria apiicola**,
benzimidazole resistance, plant protection
7204
imidazolidine-1,4-dione derivatives 2135
- Septoria avenae**,
wheat, fungicide 4488
- Septoria avenae triticea**,
wheat 4350
- Septoria cornicola**,
red-osier dogwood, benomyl 10008
- Septoria digitalis**,
digitalis, lanatoside A/lanatoside C,
digitoxin/digoxin 870
- Septoria glycines**,
soybean 6194
- Septoria gureza**,
Acer caesium 10009
- Septoria humuli**,
hop, captan 2743
- Septoria jeniensis**,
8291
- Septoria lactucae**,
lettuce, benomyl 6371
- Septoria leucanthemi**,
Killian daisy, fungicide 3570
- Septoria lycopersici**,
eggplant 336
tomato 336
tomato, plant protection 5392
- Septoria musiva**,
poplar 5463
- Septoria nodorum**,
benzimidazole derivative +
2-(thiocyanomethylthio)-benzothiazole seed
treatment fungistat, plant protection 9994
ochrace, wheat 3491
N-phenyl maleic imide derivatives 393
phospholane/phosphite derivatives 3576
triorganotin compounds/triorganolead
compounds 2129
wheat 1038 3488 4315 4359 4360 5335 6161
7899 8656 8657 9813
wheat, antifungal agent 9962
wheat, fungicide 4488 7899
- Septoria nodorum(Contd)**,
wheat, resistance 8656 9936
wheat, zinc-maneb 8811
- Septoria passiflorae**,
benomyl resistance, passionfruit 7214
benzimidazole resistance, plant protection
7204
- Septoria pisi**,
pea 9766
- Septoria tritici**,
Agroticum, resistance 3552
wheat 3488 4359 7899 8658 9814
wheat, fungicide 1894 4488 7899 9964
wheat, resistance 3552 9814 9937
- Sequoia gigantea**,
Poria incrassata 6392
- Sequoia sempervirens**,
decay resistance 10026
- Serine**,
Arthrobacter 3220
Brevibacterium 3230
Candida tropicalis, hydrocarbon 485
Mycobacterium 3230
- L-Serine**,
Pseudomonas 3ab, methanol 8322
- Serine dehydratase**,
Proteus vulgaris 5042
- D-Serine dehydratase**,
Escherichia coli 6925
- L-Serine dehydratase**,
Aeromonas punctata 9434
Arthrobacter globiformis 6924
Proteus vulgaris, antileukaemia agent 4124
- [2-Serine]-phaseolotoxin**,
Pseudomonas phaseolicola 8586
- Serine protease**,
Bacillus licheniformis 3312
Bacillus subtilis 2494 3313
- Serine proteinase**,
microbial, N-acyl-L-methionine 2424
- Serine proteinase D**,
Streptomyces griseus 8392
- Serine proteinase E**,
Streptomyces griseus 8392
- Serinol**,
helminthosporoside, Helminthosporium
sacchari, sugarcane 2629
- Serology**,
794
agglutination 1552
Escherichia coli enterotoxin assay 9733
Micro-Compu-Pet 10539
potato virus X/potato virus S/potato virus
M/potato virus Y, potato 9303
tomato spotted wilt virus 10638
- Serotyping**,
Bacillus cereus, food 5200
Bacillus cereus, food poisoning 5200
Clostridium botulinum 8580
Escherichia coli 10562
Neisseria gonorrhoeae 7571
Propionibacterium acnes/Propionibacterium
avidum/Corynebacterium parvum 3189
Pseudomonas aeruginosa 1575
Staphylococcus epidermidis, hospital 672
Streptococcus 3997
- Serpula lacrimans**,
wood 7243
wood preservative 4551
- Serratia**,
alkylbenzene sulphonate degradation 899
amikacin 2189 3758
aminoglycoside antibiotics 1319
antibiotic X-372A 1403
azlocillin 8155
beef + soybean patties 7764
beta-lactam antibiotics resistance,
beta-lactamase 8952
bile-esculin agar 9272
cephalosporin derivatives 1340 2215 3769

Subject index

Serratia(Contd),

cephalothin/cefamandole/cefotaxime 1325
 gentamicin 2189 3758
 gentamicin/sisomicin/tobramycin 6562
 meat/hide 4210
 netilmicin 3814 10392
 netilmicin/gentamicin/tobramycin/amikacin 5750
 Netilmicin/gentamicin/tobramycin/sisomicin 5751
 oxolinic acid 5563
 selective medium, caprylate-thallos agar 3993
 sewage, antibiotic + inorganic metal resistance 2925
 sisomicin 2189 3758 6651 6652
 sisomicin/gentamicin 3757
 sulphamethoxazole-trimethoprim 2941
 tests 1565
 tobramycin 528 2189 3758
 Tween 80 differentiation medium, Enterobacteriaceae 10588

Serratia atypique,
 dairy effluent treatment 3115

Serratia indica,
 dihydrofolate synthetase 5941
 GTP cyclohydrolase 2474
 pterin 2474

Serratia liquefaciens,
 amikacin 7427
 deoxyribonuclease-indole medium 7541
 inositol-containing selective medium 3977
 MORLUC numeric system 1567
 selective medium, inositol 8275
 tests 4946

Serratia marcescens,
 3-deoxybutyrosin A 2253
 3-deoxydehydrostreptomycin 6594
 5-amino-5-deoxybutyrosin 1409
 air, ionization 7463
 air pollution, high-vacuum steam sterilizer 3735
 amikacin 4743 7427
 amikacin + carbenicillin 4743
 amikacin/gentamicin/kanamycin/sisomicin/tobramycin 7384
 aminotrihydroxybutyrosin A 2254
 anthranilate-5-phosphoribosylpyrophosphate phosphoribosyltransferase 1639
 antibiotic A-26771 1390
 antibiotic No. K-73 3803
 antibiotic sensitivity testing 4718
 antibiotic TA 6621
 antibiotics 2993
 ascorbic acid analogues 3341
 aseptic packaging, medical instrument 2161
 bacteriocin typing 10589
 blood culture, non-sterile blood collection tube 4966
 cephalosporin derivatives 570 1312 1341 1342 1343 3017 3018 8124 8140 9070
 cephalosporins 2194
 cephalothin-resistant, cefotaxime/cephalosporin BL-5786 10275
 cephamycin derivatives 6575
 chlorhexidine gluconate, skin antiseptic 4908
 contact lens sterilising solution 1284
 cysteine desulphhydrase, L-cysteine 6829
 cytosine deaminase 831
 deoxyribonuclease-indole medium 7541
 D-3,6-diaminohexanoic acid 2-(carboxymethyl)-2-methylhydrazine 2151
 endonuclease, protein 5063
 flocculation, bentonite 10535
 flower vase water, potted plants, hospital hygiene 10489
 formic acid 8317
 frozen erythrocytes 1293
 gentamicin 4743

Serratia marcescens(Contd),

gentamicin + azlocillin 7383
 gentamicin C1 derivatives 2225
 gentamicin C1a derivatives 5685
 gentamicin C2 derivatives 617
 gentamicin + carbenicillin 4743 7383
 gentamicin + mezlocillin 7383
 gentamicin/sisomicin/tobramycin 6563 6564
 gentamicin/tobramycin/carbenicillin resistance, R factor 8052
 hexachlorophene + povidone-iodine + ethanol, bronchofiberscope disinfection 5807
 L-homoisoleucine 3232
 homoserine dehydrogenase 1653
 hospital intensive care unit 3916
 immobilisation 1620
 industrial product pollution 4348
 inositol-containing selective medium 3977
 iodopolymers 1258 1259
 iron oxidation 4613
 2-keto-L-gulonic acid, L-sorbose 3229
 lipase, Cheddar cheese 157
 lipase, triglyceride assay 3290
 mesquite 822
 metalloprotease 3292 3293
 mezlocillin 5672
 MORLUC numeric system 1567
 nebramycin 2265
 negamycin analogues 642
 Neisseria gonorrhoeae 3990
 netilmicin 1429 4743 9145
 netilmicin + carbenicillin 4743
 netilmicin/gentamicin/amikacin 4741
 netilmicin/gentamicin/tobramycin 10393
 netilmicin/gentamicin/tobramycin/amikacin/sisomicin 2184
 netilmicin/sisomicin 3815
 norvaline 8321
 L-norvaline 3232
 nuclease 8376
 nuclease, Candida tropicalis 6906
 outer membrane phosphatase, polymyxin B 9103
 oxazolidine derivatives 5553
 8-oxo-4-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid 8122
 penicillanic acid derivatives 6591
 penicillin derivatives 1312 6589 6590 7405 7406 7408
 penicillins/cephalosporins resistance, beta-lactamase 3674
 phosphatase 3306 3307
 polymyxin B 10323
 polysaccharide, polymyxin B 5692
 povidone iodine 2935
 prodigiosin 2528 8424
 prodigiosin, antibacterial agent 8188
 protease 5091 8388
 protease, Galleria mellonella 5917
 pyrano-indole derivatives 7349
 resistance, carbenicillin 4743
 resistance, gentamicin 4743
 resistance, netilmicin 4743
 selective medium, inositol 8275
 sisomicin + azlocillin 7383
 sisomicin + carbenicillin 7383
 sisomicin/gentamicin 7387
 sisomicin/gentamicin/tobramycin 7386
 sisomicin + mezlocillin 7383
 soil fungi, cadmium 8018
 L-sorbose, L-sorbose 3229
 streptomycin A 5763
 substituted sulphonylacetamido cephalosporins 2204 2205 2206
 beta-ursolic acid 6532

Serratia marinorubra,
 hydrocarbons 479
 oil, sea water 8047

Serratia rubideae,
 deoxyribonuclease-indole medium 7541

Subject index

Serum,

- aminoglycoside antibiotics, assay,
- Staphylococcus aminoglycoside
- 4-adenylyltransferase/*Escherichia coli*
- aminoglycoside 2-adenylyltransferase 2183
- bacterial endotoxin, *Limulus* amoebocyte
- lysate test 7844
- bovine foetal, mucosal disease virus, quality
- control 8109
- 5-fluorocytosine, gas chromatography assay
- 8080
- folate assay, *Lactobacillus casei*/radioassay
- kit 4952
- gentamicin, high-pressure liquid
- chromatography assay 7414
- human, cefazolin 10274
- human, cephalothin 10274
- netilmicin, high-pressure liquid
- chromatography assay 7414
- quality control 10414
- sisomicin, high-pressure liquid
- chromatography assay 7414

Serum opacity factor,

- Staphylococcus epidermidis 5141

Sesame,

- Choanephora cucurbitarum 8728
- Fusarium oxysporum, fungicide 9959
- Macrophomina phaseolina 1083
- Macrophomina phaseolina, pectic enzymes 5084
- phyllplane, fungi 1949
- seed, *Aspergillus flavus* 1838
- Thielavia terricola*, culture medium 1004
- Thielavia terricola*, fungicide 381
- Xanthomonas sesami* 8727

Sesame seed,

- zearalenone, *Fusarium roseum* 2620

Sesamum indicum,

- see also Sesame
- Choanephora cucurbitarum 8728
- Fusarium oxysporum, fungicide 9959
- Macrophomina phaseolina 1083
- Macrophomina phaseolina, pectic enzymes 5084
- seed, *Aspergillus flavus* 1838
- Xanthomonas sesami* 8727

Sesamum orientale,

- phyllplane, fungi 1949
- Thielavia terricola*, culture medium 1004
- Thielavia terricola*, fungicide 381

Sesbania grandiflora,

- Protomyces thirumalacharii* 4302

Setaria,

- + *Spirillum*, nitrogen fixation 5501
- resistance, *Panicum mosaic virus*-St.
- Augustine decline strain 6333

Setaria glauca,

- virus disease 1869

Setaria italica,

- Uromyces setariae-italica* 3481

Sewage,

- see also Waste and Effluent
- Achromobacter, antibiotic + inorganic metal
- resistance 2925
- activated sludge treatment 1488
- aeration 3888
- Alcaligenes faecalis*, arsenite oxidation
- 2306
- alkyl benzenesulphonate degradation 4166
- bacteria, polyethylene glycols degradation
- 6022
- bacteria, quaternary ammonium compound
- degradation 7711
- bacteria, sodium dodecyl sulphate degradation
- 2555
- chlorinated effluent, coliforms, membrane
- filtration 3110
- chlorination, phytoplankton 9226
- chlorination, sea water 5782
- chlorine disinfection 6685
- coliform 3893

Sewage (Contd),

- coliforms, antibiotic resistance transfer
- 6473
- coliforms, violet red bile agar 6771
- composted sludge, *Salmonella enteritidis*,
- ionizing radiation 7483
- composting 9195 9196
- coxsackievirus 7486
- cyanide, treatment 1491
- Desulfovibrio vulgaris* + *Methanobacterium*,
- methane 9204
- disinfection, ultraviolet radiation 1466
- disposal, water pollution 7494 7495
- effluent, peracetic acid disinfection 5783
- effluent, poliovirus, soil 3108
- effluent, *Salmonella* 3095 8209
- effluent, soil microorganisms 6450
- effluent, soil/vegetables spray-irrigation,
- Mycobacterium bovis* BCG 9205
- effluent, treatment 9199
- effluent, treatment, immersion filter 2317
- effluent, vegetable spray irrigation, viruses
- 5784
- Enterobacteriaceae, antibiotic + inorganic
- metal resistance 2925
- enterovirus 9201
- enterovirus, gauze pad 6709
- Escherichia coli* 3893
- Escherichia coli* count, McConkey broth 3877
- flocculant 1477
- hexachlorophene, microbial degradation 689
- hospital, treatment 695
- lagoon, aeration 1482
- lagoon effluent, reed canarygrass irrigation,
- coliforms 4607
- outfall 676
- oxidation 6674
- Penicillium*, dimethylselenide 4144
- phage MS-2 + bentonite, chlorine 6519
- phenylamide pesticide, microbial degradation
- 6023
- phosphate, microbial removal 7480
- poliovirus 7486
- poliovirus, Aquella virus concentrator 3875
- poliovirus, calcium hydroxide 1462
- poliovirus, ozone 697
- poliovirus, talc + Celite/polyelectrolyte 60
- 3109
- polluted lake water, bacteriology 6724
- Pseudomonas aeruginosa*, membrane filtration
- 6719
- Pseudomonas convexa*, mandelic acid
- degradation 903
- respirometer, bacterial respiration 6712
- 6713
- Salmonella* 1463 5779
- Salmonella*, Rappaport's enrichment medium
- 10587
- sea water fertilization 5003
- sea water pollution 8244
- sea water pollution, sea salt 10501
- septic tank 1481
- sludge 8214
- sludge, anaerobic digester 3846
- sludge, bacteria, carboxymethyloxysuccinate
- degradation 5187
- sludge, *Clostridium*, hydrogen utilization
- 9203
- sludge, composting 3120 8220 10457
- sludge, dewatering 684 5788 5791
- sludge, digester 3099
- sludge, disposal 6679 6680
- sludge, electron beam disinfection 9197
- sludge, fertiliser 9194
- sludge, fungal degradation 1465
- sludge, irradiation 3863
- sludge, lagoon 6679
- sludge, land disposal 683
- sludge, + *Pisolithus tinctorius mycorrhiza*,
- pine 3601

Subject index

Sewage(Contd),

sludge, poliovirus, heat treatment + gamma-irradiation 9302
sludge, rotating aeration, Salmonella 678
sludge, soil 4605
sludge, soil, coliforms 3111
sludge, soil disposal 4604 6679
sludge, soil disposal, poliovirus, vegetable crops 4561
sludge, soil, nitrification 7268
sludge, thermoradiation 3104
sludge, treatment 1472 1489 1490 5786 5788 5791 8231
sludge, treatment, Propionibacterium freudenreichii/Butyribacterium rettgeri/Acetobacter acetii, hydrocarbon 2315
sludge, vegetable spray irrigation, viruses 5784
sludge, viruses 2300
Streptococcus 3893
Streptococcus phages, enrichment medium 9202
toxicity, microbial assay 2364
treatment 674 698 703 704 706 707 708 711 712 713 714 1478 1475 1483 1484 1485 1486 1492 2291 2309 2312 2408 3103 3122 3856 3857 3870 3871 3884 3885 4855 4856 4863 4867 4998 5774 6672 6676 7479 7489 7490 7492 8210 8212 8231 8233 9186 9207 9208 9209 9211 10435
treatment, activated sludge 673 2294 2297 3842 3843 3845 10437 10464
treatment, activated sludge + biological filter bed 3886
treatment, activated sludge, nucleic acids 9181
treatment, activated sludge, poliovirus 8229
treatment, aeration system 715
treatment, anaerobic digestion 6675
treatment, closet 5787
treatment, coliform, R factor, antibiotic resistance 2305
treatment, composting privy 3880
treatment, computer 10441
treatment, denitrification 1480 8269
treatment, fermenter 10525
treatment, hygiene 3864
treatment, microbial film reactor 3850
treatment, multiple jet aerator 3882
treatment, nitrification 9176
treatment, oxidation ditch 10442
treatment, Rhodospirillaceae 2307
treatment, septic tank 1475 4862
treatment, sludge drying beds 682
treatment, sodium bicarbonate 7476
treatment, soil irrigation 4859
treatment, trickling filter microorganisms, antibiotics 3862
Vibrio cholerae 3878
viruses 10460
waste 7469
wet composting 700

Sewage-polluted water,
Salmonella, selenite F/Muller-Kauffmann tetrathionate isolation media 5799

Sewage sludge,
Escherichia coli, hydrogen 9476

Shampoo,
antibacterial agent/antifungal agent, pyridazine-2-oxide derivatives 3932
preservative, antibacterial agent/antifungal agent, aliphatic diol 4699
quinoxaline derivatives, antibacterial agent/antifungal agent 5598

Sharka virus,
plum 8671
purification 2401

Sharples Supercentrifuge,
continuous-flow cell cycle fractionation 6794

Sheath blight,

Corticium sasakii, rice 280 3640
Pellicularia sasakii, rice, thioureidobenzene phosphates 2014
Pellicularia sasakii, rice,
7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine derivatives 3589
Thanatephorus cucumeris, rice 8648

Sheath inoculation test,

rice, Pyricularia oryzae 2706

Sheath rot,

Acroclindrium oryzae, rice 7855 8644

Sheep,

Clostridium vaccine 9167
feed, corn + poultry litter silage 9637
feed, ensiled broiler-house litter 7789
feed, haylage 6109
feed, silage 6109
feed, silage, digestibility 6108
feed, trichloroethyl adipate, methane suppression 9620
rumen bacteria, Clostridium botulinum toxin degradation 3445
stable, air, bacteria 8207

Sheep blood agar,

+ sulphamethoxazole-trimethoprim,
Streptococcus group A/Streptococcus group B selective medium 10595

Sheep-fold,

air, bacteriology 4847

Sheep industry,

hygiene 1526

Shelf-life,

antibiotics 9031
beef, packaging film 7802
bologni 6085
chicken, cold storage, polyphosphate, Salmonella 4239
chopped beef 174
deep freeze-stored vacuum-packaged sliced bacon 4242
fermented dairy product 4237
food, preservation 3421
fruit juice 9607
ham 6085
luncheon meat 6085
milk 2606
milk product 2606
milk product, stabiliser 963
papaya, gamma-irradiation 4442
prepackaged beef, carbon monoxide 2613
prepacked herring 4246
salami 6085
sweetened aerated beverage 4251

Shellfish,

enterovirus 4215
Escherichia coli 4217
estuarine water, Salmonella/coliform, membrane filter + most probable number test 722
hygiene 743
microorganisms 9585
processing wastewater treatment 3105
quahaug, coliform/Salmonella 188
Salmonella 4217
Vibrio 4217
Vibrio parahaemolyticus 4217
yeasts 6086

Sherry wine,

898

Shield,

water, Dichotomophthoropsis nymphaeorum 4369

Shigella,

S-amino-5-deoxybutirosin 1409
aminoglycoside antibiotics 1319
antibacterial agent resistance 5524
antibiotics 9040
antibiotics resistance 5526 10120
catfish 7774

Subject index

Shigella(Contd),

- cephalexin/cephradine/cefactor 6578
- cephalosporin derivatives 570 3769
- cephalosporin SQ 67,590 5662
- cephalosporins 1324
- 4-chloro-2-cyclopentylphenyl
 - beta-D-galactopyranoside medium enrichment, *Escherichia coli* 8286
- cinoxacin/ampicillin/chloramphenicol 7380
- gentamicins 9090
- glutamic decarboxylase test 4929
- glycosidases 3171
- Haemophilus influenzae* bactericidal factor 6844
- identification 2388
- beta-lactamase, *Streptomyces* beta-lactamase inhibitor 3347
- MORLUC numeric system 1567
- PathoTec system 7540
- rapid KCN-test 3170
- river water 2338
- sausage 9579
- sea water 9227
- sodium acetate medium 7556
- substituted sulphanylacetamido cephalosporins 2204 2205 2206
- sulphamethoxazole-trimethoprim 7319
- tests 1565
- beta-2-thienylalanine assay 4937
- Tribrissen (sulphadiazine + Trimethoprim) 2939
- beta-ursolic acid 6532
- wastewater, soil irrigation 3874
- xylose lysine deoxycholate agar medium 9284

Shigella boydii,

- cephalosporin derivatives 5665
- cinoxacin/ampicillin/chloramphenicol 7380

Shigella dysenteriae,

- 3-deoxydehydrostreptomycin 6594
- ampicillin resistance 487
- ampicillin resistance, R-factor 6479
- antibiotic TA 6621
- antibiotics resistance 10120
- cephalosporin derivative 1329
- chloramphenicol resistance 487
- Chuangxinmycin 10363
- kanamycin B derivatives 6596
- kanamycin derivatives 3785
- nitrothiazole derivatives 1269
- penicillin derivatives 1350
- phenoxacetamido-nitrothiazole derivatives 2973
- polymyxin B 10120
- polymyxin M 10120
- streptomycin resistance 487
- sulphadiazine resistance 487
- tetracycline resistance 487

Shigella equirulus,

- cephalosporin R-sulphoxides 5637
- penicillin R-sulphoxides 5637

Shigella flexneri,

- 5-hydroxy-1-[[[5-nitro-2-furanyl)methylene]amino]-2,4-imidazolidinedione 7321
- 6beta-acylamino-6-alpha-alkoxy penicillins 2173
- 7beta-acylamino-7-alpha-alkoxy cephalosporins 2173
- + *Candida albicans*, antibiotics/antibacterial agent/antifungal agent 5631
- antibiotic A16884 6619
- antibiotic No. K-73 3803
- antibiotic TA 6621
- antihistamine 5549
- Bacillus subtilis* antibiotic 9028
- ceftezole 5654
- cephalosporin derivative 1328 1329
- cephalosporin derivatives 1335 5665
- cinoxacin/ampicillin/chloramphenicol 7380
- cinoxacin/nalidixic acid/oxolinic acid 4662

Shigella flexneri(Contd),

- D-3,6-diaminohexanoic acid
- 2-(carboxymethyl)-2-methylhydrazine 2151
- 1,3-dioxane-4,6-dione derivatives 9037
- disinfectant 6727
- econazole 2974
- endotoxin, assay, spectrophotometry 9724
- formic acid 8317
- hydrazide derivatives 5557
- kanamycin B derivatives 6596
- kanamycin derivatives 3785
- medermycin 4812
- miconazole 2974
- 4-nitrophenyl mercapto acetic acid hydrazide 7327
- oxamicetin 3073
- oxazolidine derivatives 5553
- paromomycin derivatives 3784
- 2-phenyl-1,2,3-triazole-4-carboxylic acid hydrazide 7327
- 2-phenyl-1,2,3-triazole-4-carboxylic acid-sulphonylhydrazide 7327
- pyrazole derivatives 5557
- sulphonylhydrazide derivatives 5557
- xylostasin 654
- Shigella flexneri + Shigella sonnei vaccine,** 9164
- Shigella krusei,**
 - cepham derivatives 2200
- Shigella newcastle,**
 - + *Candida albicans*, antibiotics/antibacterial agent/antifungal agent 5631
- Shigella paradysenteriae,**
 - cephalosporin derivatives 1341 1342 1343 3017 3018 3019 9070
 - cephamycin derivatives 6575
 - 7-oxo-1,5-diazepicyclo[3.2.0.]heptane-2-carboxylic acid 8121
- Shigella shigae,**
 - arylsulphonylacetic acid hydrazide derivatives 8985
 - s-triazinyl aryl/alkyl sulphones 1215
- Shigella sonnei,**
 - + *Candida albicans*, antibiotics/antibacterial agent/antifungal agent 5631
 - antibiotic A16884 6619
 - antibiotic B371 5706
 - antibiotic XK-90 5710
 - antibiotics resistance 5530
 - bacteriocin typing 7546
 - ceftezole 5654
 - cephalosporin derivative 1329 5665
 - cephalosporins 3766
 - Cheddar cheese 6063
 - cinoxacin/ampicillin/chloramphenicol 7380
 - cinoxacin/nalidixic acid/oxolinic acid 4662
 - colicin 2440
 - cycloalkyl-4-oxoquinoline-3-carboxylic acid derivatives 2141
 - fortimicin A 8181
 - human faeces, selenite F isolation medium 5853
 - kanamycin B derivatives 6596
 - kanamycin derivatives 3785
 - kasugamycin guanidino derivatives 3808
 - nalidixic acid 8979
 - nalidixic acid resistance, R factor 8979
 - nitrothiazole derivatives 1269
 - nocardicin A 1434
 - oxamicetin 3073
 - penicillin derivatives 1350
 - phenoxacetamido-nitrothiazole derivatives 2973
 - pyrimidine derivatives 502
 - Russian cheese 6063
 - streptomycin resistance 6480
 - surfaces, indirect haemagglutination 8285
 - tests 4946
 - tetracycline derivatives 622

Subject index

- Shigella sonnei + Shigella flexneri vaccine,**
9164
- Shiitake,**
food 2594
germanium, plant growth promotant/antiviral agent/antifungal agent 1694
- Shipping fever,**
Pasteurella, cattle,
3-(1-methyl-5-nitro-2-imidazolyl-methylidene amino)-2-oxazolidinone 2114
- Shiro,**
Tricholoma matsutake, Japanese stone pine soil 5442
Tricholoma matsutake, Sakhalin fir soil 5443
Tricholoma matsutake, Sakhalin spruce soil 5443
- Shoestring root rot,**
Armillariella mellea, Rocky Mountain juniper 5450
- Shoot blight,**
Sirococcus strobilinus, black spruce 10007
- Shoot dieback,**
Diplodia pinfa, radiat 8848
- Showdomycin,**
648
- Shoyu,**
food 4191
- Shreesul,**
Erysiphe polygoni, pea 8812
- Shrimp,**
brown, bacteriology 1755 6087
frozen raw breded, bacteria 9591
gamma-irradiation preservation 6128
microorganisms 9585
Pacific, microbiology 7020
prepackaged peeled brown, preservation 1795
white, storage, bacteriology 8512
- Sicarol,**
seed dressing, Ustilago tritici, wheat 5440
- Siccamin,**
fungicide 7450
- Sigatoka,**
Mycosphaerella fijiensis, banana, benomyl tolerance 6369
Mycosphaerella musicola, banana 5350
- Sigatoka disease,**
Mycosphaerella musicola, banana 4289
- Silage,**
2600 5246 5247 7787 7788 9632 9644
additives 9642
aflatoxins 7061
animal feed 5246 6105
bacteriostat, sodium nitrite + hexamethylene tetramine 1774
bovine manure, microbiology 7791
broiler-house litter, sheep feed 7789
caproic acid preservation 9645
cattle feed 1775 6110 6111 6112 6113 6114 6115 7790 9647
cod viscera, propionic acid + formic acid preservation 9648
corn, cattle feed 9636
corn + poultry litter, cattle/sheep feed 9637
deer feed 6107
dry matter content 7043
fatty acid 7044
fermentation, formalin/fatty acids 2601
fish, animal feed 8522
fungal cellulase 9634
lactic acid assay 9633
Lactobacillus brevis, grass-fructosane degradation 6106
Lactobacillus casei, grass-fructosane degradation 6106
Lactobacillus plantarum, grass-fructosane degradation 6106
Lactobacillus plantarum, lysine 5205
lignin degradation 4174
potato, cattle feed 9641
- Silage(Contd),**
preservation 7045
preservation, sodium metabisulphite 955
preservative 9643
preservative, Bacillus subtilis enzymes 3418
ruminant feed 9635 9646
ryegrass, formic acid 207
sheep fec 6109
sheep fec, digestibility 6108
silo 9638
tomato pulp waste, cattle feed 6104
tomato pulper waste, ruminant feed 9640
wet brewer's grains, preservation 4232
wheat, cattle feed 9639
- Silatrane A,**
antibacterial agent, fish stuffing preservation 5551
- Silatrane P,**
antibacterial agent, fish stuffing preservation 5551
- Silene armeria,**
carnation streak virus 1914
carnation vein mottle virus 1915
- Silica gel,**
culture medium, Aspergillus flavus, aflatoxins 1801
culture medium, Aspergillus parasiticus, aflatoxins 1801
purification, Clostridium oedematiens toxoid 4272
purification, Clostridium perfringens toxoid 4272
- Silicate microorganism,**
soil, isolation 4558
- Silicone,**
foam breaker, Saccharomyces cerevisiae, brewing 5173
- Silicoorganic amine,**
antibacterial agent/antifungal agent 530
- Silkworm,**
Bacillus thuringiensis delta-endotoxin 8578
Bacillus thuringiensis insecticide 8434
larva haemolymph, bactericide 7315
- Silo,**
silage 9638
- Siloxane,**
foam breaker, Saccharomyces cerevisiae, brewing 5173
- Silver,**
dichlorocyanurate complexes, antibacterial agent 10147
ions, antifungal agent 3699
soluble, Thiobacillus ferrooxidans 2903
- Silver nitrate,**
antibacterial agent 2937
resistance, Pseudomonas 2097
- Silver scurf,**
Helminthosporium solani, potato 7929
Helminthosporium solani, potato, fungicide seed dressing 7993
- Simazine,**
soil microorganisms 2037 7279
- Simian cytomegalovirus,**
phosphonoacetic acid 1245
- Simian foamy virus,**
haemagglutination test 5871
- Sindbis virus,**
antiviral agent 4825
Liquid antibody microculture plaque assay 11626
- Single radial haemolysis test,**
influenza virus antibodies 10655
- Sink,**
hospital, Pseudomonas aeruginosa 2344
- Siratro,**
+ Rhizobium, noduleation 446
- Sirococcus strobilinus,**
black spruce 10007

Subject index

- Sirodesmin A,**
Sirodesmium diversum, structure 7451
- Sirodesmin B,**
Sirodesmium diversum, structure 7451
- Sirodesmin C,**
Sirodesmium diversum, structure 7451
- Sirodesmin G,**
Sirodesmium diversum, structure 7451
- Sirodesmium diversum,**
sirodesmin A, structure 7451
sirodesmin B, structure 7451
sirodesmin C, structure 7451
sirodesmin G, structure 7451
- Sisomicin,**
10258
1-N acyl derivatives, antibacterial agent 5643
6-N-methyl-, Micromonospora zionensis, antibacterial agent 1398
6-N-methyl-, Micromonospora zionensis, structure 1399
+ azlocillin, antibacterial agent 7383
+ carbenicillin, antibacterial agent 7383
+ carbenicillin, Proteus 7381
+ cefazolin, Klebsiella 7381
+ cephaetrile, antibacterial agent 6555
+ beta-lactam antibiotic, antibacterial agent 7382
+ mezlocillin, antibacterial agent 7383
+ nafcillin, Staphylococcus aureus 10302
+ oxacillin, Staphylococcus aureus 10302
antibacterial agent 2186 2189 2969 3755 3757 3758 3815 4631 4825 5751 6562 6563 6564 6651 6652 7384 7385 7386 7387 9032 10260 10406
antibiotic complex, Micromonospora grisea, antibacterial agent 562
assay, Escherichia coli aminoglycoside 2-adenylyltransferase 2183
carbenicillin 1297
components, Micromonospora inyoensis 5761
Corynebacterium minutissimum 1306
Corynebacterium parvum 1306
Enterobacteriaceae 2184
garamine derivatives 612
Listeria monocytogenes 5629
Micromonospora inyoensis 2171 6648
Micromonospora inyoensis, antibacterial agent 6649
Mycobacterium 7388
Propionibacterium acnes 1306
Propionibacterium avidum 1306
Propionibacterium granulosum 1306
protein binding 7452
Pseudomonas aeruginosa 1321 2184
resistance, Staphylococcus aureus 1207
serum, high-pressure liquid chromatography assay 7414
Staphylococcus aureus 1207 10302
structure 6650
ticarcillin 1297
transformation, gentamicin C2b, Micromonospora rhodorangea 10262
Yersinia enterocolitica 6551
- Sistotrema brinkmannii,**
Fomes annosus, wood 6405
Stereum sanguinolentum, wood 6405
- Sisymbrium altilia,**
turnip mosaic virus 308
- Siteropes graminum,**
+ Fusarium poae, carnation 1916
- Sitka,**
spruce, Phellinus weirii 7232
- Sitona,**
broad bean stain virus, broad bean 259
- beta-Sitosterol,**
degradation, Nocardia, ketosteroids 8401
SKF 30097,
arenavirus 2122
- Skin,**
antiseptic, alcoholic chlorhexidine 8252
antiseptic, alcoholic chloroxylenol 8252
antiseptic, chlorhexidine gluconate 4908
bacteria, soap/deodorant soap 5816
bacteriostat, hexachlorophene 4905
bacteriostat, tribromosalan 4905
bacteriostat, triclosan 4905
disinfectant 1522
hydrogen peroxide disinfectant 1516
microorganisms, hygiene 10646
microorganisms, soap 4604
partially-processed, preservation 7285 7286
soap, germicide, trichloro-2-hydroxy diphenyl ether 4907
- Skin hygiene,**
antibacterial agent 1517
deodorant 748
disinfectant, antimicrobial agent 10494
- Skin sampler,**
bacterial, hygiene 10584
- Skin spot,**
Oospora pustulans, potato post-harvest decay 6235
- Slaughter house,**
see Abattoir
- Slide,**
flexible plastic, microbial microscopy 3940
- Slide agglutination,**
Streptococcus 1577
- Slide co-agglutination,**
Streptococcus 1578
- Slide staining device,**
space flight 4925
- Slime,**
coryneform bacteria, industrial water system 9214
microbial film reactor 3850
- Slime mould,**
Physarum gyrosum, antibiotic, culture medium 2238
soil, isolation methods 8016
- Slimeicide,**
see also Slime
bactericide/fungicide 7345
benzisothiazolin-3-one derivatives 534
alpha-bromo-o-methylacetophenone + 1,3-dichloroacetone oxime acetate, industrial water system 10470
chlorine, industrial water system 9213
alpha-chloro-o-acylbenzaldoxime derivatives, industrial water system 3891
1,3-dichloroacetone oxime acetate + beta-bromo-beta-nitrostyrene, industrial water system 2320
dithiocarbamate derivatives, industrial water system 6526
fresh-water aquatic microorganisms 10481
halocyanacetamide + haloacetic ester, industrial water systems 1496
industrial water system 717
paper industry, triorganotin compounds/triorganolead compounds 2129
paralldol, industrial water system 3721
tetrachlorotetrahydrothiophene-1,1-dioxide + bis(trichloromethyl)-sulphone, industrial water system 3124
- Sllobber syndrome,**
Rhizoctonia leguminicola 973
Rhizoctonia solani toxin, animal feed 972
- Slops,**
distillery, food yeast 6032
fermentation industry, Candida utilis biomass 5886
rum distillery, fungi 7701
- Sludge,**
activated 6682 6683 8214
activated, Acinetobacter phosphodevorus, phosphorus removal 10467

Subject index

Sludge (Contd),

activated, antibiotic wastewater treatment,
antifoaming agent 692
activated, ATP 5777
activated, bacteria, non-ionic surfactant
degradation 1709 1710
activated, bacteria, polypropylene glycol
degradation 9530
activated, bacteria, respirometry 3849
activated, biological oxygen demand 3844
activated, bulking 9192
activated, bulking control 9193
activated, cannery waste treatment 6694
activated, carbohydrate waste treatment,
microflora 6691
activated, carbohydrate waste treatment,
polysaccharide 6690
activated, carbonisation effluent treatment
685
activated, chromium tannery wastewater
treatment 9187
activated, citrus waste, chicken feed 1764
activated, completely mixed oxygen,
wastewater treatment 4854
activated, continuous culture 2357
activated, cyanide wastewater treatment 687
3860
activated, dairy industry wastewater
treatment 10447
activated, dairy waste treatment 679 1461
6696 8223
activated, denitrifying bacteria, nitrate
reductase 5962
activated, dewatering 7491 9191
activated, 3,5-dichlorophenol, bacterial
toxicity 7481
activated, DNA 3867
activated, effluent aeration 5790
activated, fellmongery wastewater treatment
9188
activated, floc-forming *Flavobacterium*,
pronase 6686
activated, floc, sonication, bacteria,
isolation medium 6687
activated, food industry wastewater treatment
6693
activated, food waste treatment 6024
activated, *Haloscomenobacter hydrossis*,
Zoogloea ramigera 9180
activated, hexachlorophene, microbial
degradation 689
activated, hydrosulphite waste treatment
2316
activated, lemon processing wastewater
treatment 6698
activated, malting effluent treatment 1460
activated, methylcellulose degradation 2554
activated, microorganisms, cadmium,
cadmium-cyanide 7482
activated, microorganisms, phenol degradation
8216
activated, microorganisms,
tributyltinfluoride/tributyltin oxide, waste
treatment 8217
activated, *Mycobacterium* 8875
activated, nitrification 1456 2298
activated, nitrile/cyanide wastewater
treatment, *Nocardia rubropertincta* 1473
activated, nucleic acids, waste treatment
9181
activated, oxygen transfer 3844
activated, polyester fibre industry waste,
non-ionic surfactant, microbial degradation
3861
activated, polymer 693
activated, + powdered activated carbon, waste
treatment 10438
activated, *Pseudomonas*, sugar-lipids,
paraffin 3665
activated, rotating disc process 675

Sludge (Contd),

activated, sewage treatment 673 711 2294
2297 2309 3842 3843 3845 6672 5676
activated, spirochaete 4866
activated, tannery effluent treatment 10449
activated, treatment 3842 9173
activated, *Trichoderma viride* cellulase 6878
activated, vegetable industry effluent
treatment 6699
activated, viscous product 694
activated, waste treatment 705 3102 3844
3847 3848 7466 7469 10437 10461 10462 10464
activated, waste treatment, alum 10439
activated, waste treatment, oxygen 7468
activated, waste treatment, poliovirus 8229
activated, wastewater denitrification 3881
activated, wastewater treatment 1452 1453
1454 1467 1468 1474 1488 2292 2311 3101
3122 3123 3851 3852 3853 3856 3857 3858
3886 3887 4853 4854 5775 5776 6673 6677
8211 8215 10436 10463
activated, wastewater treatment, biotin 3866
activated, wastewater treatment, toxic
industrial wastes 5703
activated, *Zoogloea* 4865
compost, soil 4605
composting 2310
dewatering 7491
disposal 10435
drying beds, sewage treatment 652
oxidation pond 9177
paper mill, composting 6689
pulp mill, composting 6689
pyrolysis, activated carbon 677
Salmonella, Rappaport's enrichment medium
10587
sewage 8214
sewage, anaerobic digester 3846
sewage, bacteria, carboxymethylxysuccinate
degradation 5187
sewage, *Clostridium*, hydrogen utilization
9203
sewage, composted, *Salmonella enteritidis*,
ionizing radiation 7483
sewage, composting 3120 8220 9193 10457
sewage, dewatering 684 5788 5791
sewage, digester 3099
sewage, disposal 6679 6680
sewage, electron beam disinfection 9197
sewage, *Escherichia coli*, hydrogen 9476
sewage, fertiliser 9194
sewage, fungal degradation 1465
sewage, irradiation 3863
sewage, lagoon 6679
sewage, land disposal 683
sewage outfall 676
sewage, + *Pisolithus tinctorius mycorrhiza*,
pine 3601
sewage, poliovirus, heat treatment +
gamma-irradiation 9302
sewage, rotating aeration, *Salmonella* 678
sewage, soil 4605
sewage, soil, coliforms 3111
sewage, soil disposal 4604 6679
sewage, soil disposal, poliovirus, vegetable
crops 4561
sewage, soil, nitrification 7268
sewage, thermoradiation 3104
sewage, treatment 1472 1489 1490 2312 5774
5786 5788 5791 8231
sewage, treatment, *Propionibacterium*
freudenreichii/*Butyrivibacterium*
rettgeri/*Acetobacter aceti*, hydrocarbon
2315
sewage, vegetable spray irrigation, viruses
5784
sewage, viruses 2300
soil/vegetables spray-irrigation,
Mycobacterium bovis BCG 9205
waste treatment 1451 7479 9210

Subject index

Sludge(Contd),

wastewater, poliovirus, heat treatment 2301
wastewater, virucide, ammonia, poliovirus 10459

wet composting 700

Sludge scraper,

waste treatment 8236

Slurry,

cattle, *Salmonella* 2306
cattle, *Salmonella dublin* 8230
cattle, surface aeration, hygiene 6705
cheddar cheese 5224
manure, nitrification/denitrification 1457
pig, rotating aeration, picornavirus 4857
pig, surface aeration, hygiene 6705
pig, treatment 681
treatment 1469

Smilax proliifera,

Puccinia merrilli 997

Smirnovia turkestanii,

rhizosphere/root, mycoflora 2865

Smoking,

food preservation, aflatoxin 2624

Smut,

Tilletia controversa, wheat 2714
Ustilago hordei, barley 2690
Ustilago maydis, corn 2697
Ustilago maydis, corn, resistance 2783
Ustilago scitaminea, sugarcane 3487
Ustilago scitaminea, sugarcane, plant protection 5332 6336
Ustilago scitaminea, sugarcane, resistance 3549
Ustilago zeae, corn, resistance 5407

SN 41703,

Phytophthora parasitica, tobacco 9972

Snakegourd,

Alternaria tenuissima 4415
snakegourd mosaic virus 1950

Snakegourd mosaic virus,

snakegourd 1950

Snapdragon,

Puccinia antirrhini, cold treatment 9949

Snapper,

bacteriology 4214

Sneezewort,

Erysiphe cichoracearum 304

Snow mould,

Fusarium nivale, rye 4315
Fusarium nivale/*Sclerotinia borealis*/*Typhula*/*Basidiomyces*, turfgrass, fungicide 4485
Fusarium nivale, wheat 4315
Kentucky bluegrass 1872
microorganisms 2536
red fescue 1872
Sclerotinia borealis, bentgrass, fungicide 8795
Sheep's fescue 1872
turfgrass 1872
Typhula + *Fusarium*, wheat 9805
Typhula FW, bentgrass, fungicide 8795
Typhula idahoensis, wheat, resistance 6337

Soap,

aminimide derivatives, antibacterial agent/antifungal agent 10197
antibacterial agent 2342
antibacterial agent, thiourea derivatives 1933
antifungal agent/antibacterial agent, epsilon-caprolactam + alkanediamine derivatives 2149
bactericide/fungicide, isothiazole derivatives 1268
bacteriostat, benzanilide derivatives 1217
cloflucarban, antibacterial agent 4906
deodorant, skin bacteria 5816
germicide 3924

Soap(Contd),

germicide, trichloro-2-hydroxy diphenyl ether 4907
hexachlorophene, antibacterial agent 4906
rosamicin monoesters, antibacterial agent 5760
skin bacteria 5816
skin microorganisms 4904
tribromosalan + triclosan, bacteriostat, skin 4905
triclocarban, antibacterial agent 4906
triclosan, antibacterial agent 4906

Soda water,

fungus spores 3895

Sodium acetate medium,

Enterobacteriaceae 7556

Sodium arsanilate,

pig feed, swine dysentery 954

Sodium azide,

Rhizoctonia solani/*Pythium aphanidermatum*, cucumber 380

Sodium bicarbonate,

wastewater treatment 7476

Sodium chloride,

antibacterial agent/antifungal agent, cholate 7317
Bacillus cereus, food preservation 8527
Candida stellatoidea, lipid, fatty acid 9324
medicament sterilisation 2154
methanogenic bacteria, methane 8042
tolerance, *Bacillus* 5522
tolerance, *Tetracoccus soyae* 5522
Vibrio parahaemolyticus 5203

Sodium chloride-polyethylene glycol,

centrifugation, vegetable marrow mosaic virus 4014

Sodium dichloroisocyanurate dihydrate,

tablet 2332

Sodium dimethyldithiocarbamate,

Stemphylium botryosum, lettuce post-harvest decay 4438

Sodium dodecyl sulphate,

degradation, sewage bacteria 2555
Erwinia amylovora 8064
plant viruses 2397
tobacco mosaic virus, tobacco/bean 5435

Sodium hydroxide,

disinfectant 496
virucide 1241

Sodium hypochlorite,

see also Hypochlorite
beef preservation 9675
disinfectant 496
Erwinia carotovora, celery post-harvest decay 6259

germicide, food industry 6742
variola virus 1242

Sodium lauryl sulphate,

aminoglycoside antibiotics 8128
polymyxins 8128

Sodium metabisulphite,

silage preservation 955

Sodium nitrite,

bacteriostat, silage 1774

Sodium ortho-phenylphenate,

Geotrichum candidum, orange post-harvest decay 1972 2771
Penicillium digitatum, Citrus post-harvest decay 4441
Penicillium italicum, Citrus post-harvest decay 4441

Sodium polyanethol sulphate,

aminoglycoside antibiotics 8128
polymyxins 8128

Sodium polyanethol sulphonate disc test,

Peptostreptococcus anaerobius 3992

Soft chess,

nitrogen fixation, acetylene reduction assay 2882

Subject index

- Soft rot,**
Erwinia carotovora, bean 258
Erwinia carotovora, celery 6259
Erwinia carotovora, celery, cupric hydroxide 6259
Erwinia carotovora, Chinese cabbage 1913
Erwinia carotovora, potato 8717 9920
Erwinia carotovora, potato, resistance 3543 9941
 preservative-treated wood 10020
Pythium deliense, ginger 1061
- Soft rot fungus,**
 wood preservative, vermiculite burial test 422
- Soil,**
Achylla stellata 6425
 acid peat bog, microbial degradation 10039
Actinobifida dichotomica 2056
Actinomadura coerulesviolacea, antibiotics/pigment 5618
Actinomycetales 4596
Actinomycetales, *Phytophthora* 5481
Actinomycetales, *Pythium* 5481
Actinomycetes 1164
Actinomycetes, humate 2859
Actinomycetes, montmorillonite 2859
Actinomycetes, novobiocin isolation medium 5471
 aeration, denitrification 2054
Agromyces ramosus 5472
Alcaligenes, arsenite oxidation 2860
 aldicarb, *Rhizoctonia solani*, sugarbeet 9895
 alpine tundra, microorganisms 5469
 Alvinson-R, microbial degradation 2897
 ammonification 439 440
 ammonification, Nuvocron/Supracids 2895
 ammonium fertilizer, nitrification 6435
 ammonium fixation 10059
 ammonium-oxidising microorganisms, most probable number analysis 6406
 antibiotics 6410
 antifungal agent, *Linum usitatissimum*, flax 366
 antifungal agent, pyracarbolid, *Rhizoctonia solani*, plant protection 3585
Aphanomyces euteiches, mycoparasitism, *Hyphochytrium catenoides* 5480
Aphanomyces euteiches oospores, parasitic microorganisms 8881
 apple replant disease 8660
 aquatic grass rhizosphere, nitrogen fixation 3644
 Arctic, organic matter degradation, micromycetes 2864
 arctic tundra, microorganisms, crude oil degradation 10107
 arid, myxobacters 2858
Armillaria mellea, heat treatment/drying/biological control 1997
Arthrobacter globiformis, (-)-ephedrine degradation 8455
Arthrobacter pyridinolis, pigment, 2-hydroxypyridine degradation 4129
Arthrobacter, tests 3968
Ascochyta cucumeris chlamydospore 4575
Aspergillus 3638 6426
Aspergillus deflexus 2866
Aspergillus fischeri 1166
Aspergillus itaconicus 1166
Aspergillus janus 1166
Aspergillus niger, paraquat/diquat degradation 4602
Aspergillus niveus 8020
Aspergillus restrictus 2866
Aspergillus terreus, diuron 7280
Aspergillus terreus, fluometuron 7280
Aspergillus terreus, monosodium methanearsonate 7280
Aspergillus terreus, prometryn 7280
- Soil(Contd),**
Aspergillus versicolor, versicolin, Colletotrichum gloeosporioides, biological control, jute 8880
 atrazine, microbial degradation 3655
 atrazine, soil microorganisms 3654
Azotobacter 428
Azotobacter chroococcum 3631
Azotobacter chroococcum, nitrogen fixation 8894
Azotobacter, membrane filter 3174
Azotobacter phages 4562
Azotobacter, tetrapropylene sodium alkyl benzenesulphonate detergent 6416
Azotobacter vinelandii, herbicide 5504
azotophage, *Azotobacter vinelandii*, enrichment culture 7253
Bacillus, alpha-galactosidase 5945
Bacillus-lysine chages 8873
Bacillus, mancozeb degradation 8923
Bacillus, phages 429
 bacteria, aldrin degradation, exo-dieldrin 10074
 bacteria, amitrole degradation 7281
 bacteria, denitrification 7263 7264
 bacteria, ethylene 427 6461
 bacteria/fungi, fractionated centrifugation 8867
 bacteria, mesquite degradation 8457
 bacteria, nitrogen fixation 5872
 bacteria, oxygen tension 7254
 bacteria, pentachlorophenol 8919
 bacteria, petroleum waste 6460
 bacteria, phosphate dissolution, amino acids 8874
 bacteria, phosphate solubilisation 6414
 bacteria, phthalic acid degradation 2057
 bacteria, phthalic acid/isophthalic acid/terephthalic acid 10049
 bacteria, polypropylene glycol degradation 9530
 bacteria, quaternary ammonium compound degradation 7711
 bacteria, weather 3530
 bactericide/fungicide, dithiocarbamate derivatives 6526
 bacteriostasis 2857
 barley rhizosphere, bacteria, phosphate 5470
 barley rhizosphere, microorganisms 4560
 bavistin, *Rhizoctonia bataticola*, chilli 6370
 bean seed, fungi 4301
 Beggiatoa, enrichment culture 430
 Beltrania rhombica 3639
 Beltraniella portoricensis 3639
 benomyl, *Fabraea maculata*, hawthorn 10008
 benomyl, *Gnomonia leptostyla*, black walnut 10008
 benomyl, *Gnomonia platani*, sycamore 10008
 benomyl, *Guignardia aesculi*, Ohio buckeye 10008
 benomyl, *Microsphaera alni*, lilac 10008
 benomyl, onion vesicular-arbuscular mycorrhiza/rhizosphere fungi 7975
 benomyl, *Septoria cornicola*, red-osier dogwood 10008
 biological control, *Gaeumannomyces graminis* tritici, wheat 369
 black gram rhizosphere, *Rhizobium*, streptomycetes 2881
 black spruce, urea, microflora respiration 2830
 Botrytis squamosa, onion 6279 7157
 Brachypodium ramosum rhizosphere bacteria, polysaccharide 3326
 Byssochlamis nivea 2866
 cacao, *Phytophthora palmivora* 10055
 captan, onion vesicular-arbuscular mycorrhiza/rhizosphere fungi 7975

Subject index

Soil(Contd),

carbendazim, *Cercospora personata*, peanut 4516
carbon assay 6754
cedar, *Phytophthora lateralis* 5447
cellulose, biological control, *Fusarium oxysporum*, pea 5412
Cercospora *herpotrichoides*, wheat 8652
Chaetomium, chloramben 2898
Chaetomium rufum 4577
chitin, biological control, *Fusarium oxysporum*, pea 5412
chloropham degradation, *Hendersonula toruloidea* 4601
chloropham degradation, *Stachybotrys atra* 4601
clay minerals, cadmium, antibacterial agent/antifungal agent 6455
Clostridium botulinum 5474
Clostridium perfringens 4564
Clostridium sphenoides, citrate isolation medium 7554
coal mine, fungi 2062
coal mine, thermophilic fungi 5479
Cochliobolus sativus, cereals 2868
Cochliobolus sativus conidia, perforation lysis 6427
Colletotrichum falcatum, sugarcane 7133
Colletotrichum graminicola, corn 9788
cores, corn, nitrogen fixation 6437
cores, *Sorghum vulgare*, nitrogen fixation 6437
Corticium sasakii *sclerotia* 3640
coryneform bacteria, auxins 6002
coryneform, 2,4,6-collidine degradation 3364
coryneform, 2-ethylpyridine degradation 3364
coryneform, 2,4-lutidine degradation 3364
Cryptococcus, phosphatases, inositol hexaphosphate 10052
Cylindrocladium crotalariae, peanut, resistance 8766
Cylindrocladium crotalariae, selective medium 8021
Cylindrocladium floridanum 2899
dairy effluent disposal 3873
dazomet, mycorrhiza 4609
dehydrogenase, fertilizer 5506
dehydrogenase, tetrazolium chloride 7248
denitrification 441 3641 6434 8269
denitrification, acetylene assay 10057
denitrification/nitrate reduction, *Bacillus filaris*/*Bacillus polymyxa* 442
denitrification, weather 3630
desert, *Streptomyces* 6411
Desulfovibrio desulfuricans, ferric sulphate pyritization 6456
2,4-dichlorophenoxyacetic acid degradation, *Hendersonula toruloidea* 4601
2,4-dichlorophenoxyacetic acid degradation, *Stachybotrys atra* 4601
1,3-dichloropropene, degradation, soil microorganisms 10078
dinitramine, *Aphanomyces euteiches*, pea 6353
Douglas fir, *Fusarium oxysporum* 2832
Douglas fir, mycorrhiza 6380
eggplant rhizosphere mycoflora, soil treatment 3634
Endogoneaceae 434
Endogone 7257
Endogone, *Agrostis*, phosphorus 8877
environmental chemicals, microbial degradation 3363
S-ethyl dipropylthiocarbamate, *Trichoderma viride*, biological control, *Sclerotium rolfsii*, white clover 6354
ethylenediaminetetraacetate, microbial degradation 7250
fennel rhizosphere/rhizoplane, fungi, subamycin 2863

Soil(Contd),

fertilisation, mycorrhizae, loblolly pine 8842
fertilizer, composted waste 3120
fertilizer, *Protomyces macrosporus*, coriander 3574
fertilizer, *Streptomyces scabies*, potato 1941
Festuca arundinacea rhizosphere bacteria, polysaccharide 3329
fir rhizosphere, microflora, *Fomitopsis annosa* 408
flooded, nitrification, denitrification 548
forest, *Acrodontium album* 8019
forest, *Armillariella mellea*, *Armillatox* 1121
forest, bacteria 7255
forest, beech/spruce bark degradation 2829
forest, cadoylic acid, ammonification, nitrification 7265
forest, Japanese stone pine, *Tricholoma matsutake* 5442
forest, macronutrients, litter microorganism 7994
forest, microbiology 3623
forest, microorganisms 7246
forest, monosodium methanearsonate, ammonification, nitrification 7265
forest, phosphodiesterase 10048
forest, *Phytophthora cinnamomi*, *Penicillium purpurogenum* 7260
forest, rhizosphere microorganisms 7246
forest, Sakhalin fir, *Tricholoma matsutake* 5443
forest, Sakhalin spruce, *Tricholoma matsutake* 5443
forest, *Stereocaulon paschale*, nitrogen fixation 8915
forest, *Streptomyces* 2036
forest, *Veronaea simplex* 1169
forest, vesicular-arbuscular mycorrhiza 722
fulvic acid degradation 3366
fumigant, *Phytophthora nicotianae*, tobacco 9971
fumigation, bacteria 458 459
fumigation, chloropicrin + methyl bromide, *Verticillium albo-atrum*, pistachio 5362
fumigation, DD-MENCs, *Fusarium*, asparagus 9965
fumigation, *Fusarium oxysporum*, spinach 195
fumigation, *Fusarium*, ponderosa pine 6391
fumigation, *Pythium*, ponderosa pine 6391
fumigation, *Pythium*, spinach 1951
fumigation, *Sclerotinia sclerotiorum* 7282
fungal spores, microbial degradation 432
fungi 3632
fungi, carbofuran degradation 10076
fungi, carbon substrate degradation 9522
fungi, computer 2060
fungi, enzymes 6815
fungi, ethylene 6424
fungi, fensulfothion 2086
fungi, fluorescein diacetate staining 5477
Fungi Imperfecti, antibiotics, antibacterial agent/antifungal agent 5616 5617
fungi, nematode 3653
fungi, nitrogen 2873
fungi, oil 5517
fungi, plant disease 6418
fungi, polychlorinated biphenyls 4576
fungi, semi-automatic elutriator 2059
fungi, wheat, wheat spindle streak mosaic virus 8650
fungicide, imidazolidine-1,4-dione derivatives 2135
fungicide, Kuntan 8988
fungicide, pyroxychlor, *Phytophthora palmivora*, ivy 2745
fungicide, *Verticillium dahliae*, brinjal 4489

Subject index

Soil(Contd),

fungistasis 5482 6419 6420 7258 8017
 fungistasis, *Curvularia lunata*/*Fusarium nivale* 2061
 fungistasis, *Fusarium oxysporum*, flax 10053
 fungistasis, methyl bromide 4610
 fungistasis, theoretical colonization index 2862
Fusarium avenaceum, cereal 7876
Fusarium culmorum, cereal 7876
Fusarium, dimethylselenide 4164
Fusarium, isolation medium 7584
Fusarium oxysporum, cotton 7867
Fusarium oxysporum, lupin, plant protection 6341
Fusarium oxysporum, pea 7867
Fusarium oxysporum, soil antifungal agent 366
Fusarium solani, bean 8604
Fusarium solani, bean, fungistasis 9757
Fusarium solani, cereal 7876
Fusarium solani, membrane filter, scanning/transmission electron microscopy 2869
Fusarium solani, pesticide/herbicide, bean 10073
Fusarium udum, pigeon pea 1858
Gaeumannomyces graminis 435
Gaeumannomyces graminis, wheat 9807
 garlic rhizosphere, microorganisms, root treatment 8871
Geotrichum candidum 4578
Gilmaniella humicola, cellulose degradation 6429
Glomus mosseae, culture medium 784
 green gram rhizosphere, *Rhizobium*, streptomycetes 2881
Helminthosporium sativum, cereal 7876
Histoplasma capsulatum, bat guano 2066
 hydrocarbon, microbial degradation 1708
 hydrocarbon-transforming microorganisms, isolation 4558
 hygiene 3902
 insecticide SD 8280 degradation 455
 irrigation, sewage treatment 4859
 jarosite, *Thiobacillus ferrooxidans*, mackinawite, *Desulfovibrio desulfuricans* 2088
Klebsiella aerogenes 4565
 Kraft lignin, water microorganisms 6982
 lagoon, dairy effluent treatment 4858
 larch, mycorrhiza 6380
 leaf litter fungi, microbial culture filtrates 10051
 legume seed treatment, *Rhizobium* 445
 Leguminosae root/rhizosphere, mycoflora 2865
 lettuce, *Sclerotinia minor* 3514
 lignin degradation 4174
 lignin degradation, fungi 9524
 lignocellulose degradation, radioisotope technique 8868
 lime, *Plasmidiophora brassicae*, brussels sprout 4503
 lytic microorganisms 7249
Macrophomina phaseoli 8883
Macrophomina phaseolina 6430 8921
 malaaxon, microbial degradation 4599
 manganese concretion, bacteria 8932
 manure, nitrification 6435
 marsh, bacteria, antibiotics 3056
 marsh, microorganisms + *Spartina alterniflora*, nitrogen fixation 6438
 melon rhizosphere, microflora/*Fusarium oxysporum*, foliar nutrient sprays 2065
 methyl bromide fumigation, *Sclerotium rolfsii*, iris 9967
 metribuzin, microbial degradation 3655
 microbial degradation 5185 5186 6410
 microbial enzymes 10043
 microbial enzymes, lead 6409

Soil(Contd),

microbial ethylene 2861
 microbial ethylene, water potential 8014
 microbial proteolytic enzymes, urea 3657
 microbiology 3623
 microbiology, capillary pedoscope 1160
 Micrococcus, alpha-galactosidase 5945
 microflora 424 3624
 microflora, biological control, *Gaeumannomyces graminis* 368
 microflora, biological control, wheat root rot 371
 microflora, celery, nematode 1918
 microflora, chloropicrin 457
 microflora, fertilizer 1178
 Micromonospora, cellulose degradation 8454
 microorganisms 4556 4557 6449 6450 10041
 microorganisms, acid precipitation 7247
 microorganisms, asulam degradation 10079
 microorganisms, atrazine 7279
 microorganisms, benefin degradation 10080
 microorganisms, cadmium 8018
 microorganisms, calcium cyanamide 6452
 microorganisms, carbofuran 454
 microorganisms, carbofuran degradation 10075
 microorganisms, carbon dioxide fixation 10044
 microorganisms, cyanide 2536
 microorganisms, dalaon, dehalogenase 4600
 microorganisms, DDT degradation 8034
 microorganisms, dichlobenil 8918
 microorganisms, 1,3-dichloropropene degradation, *Phytophthora parasitica* 10078
 microorganisms, 2,6-dinitro-N-(3-pentyl)-alpha,alpha,alpha-trifluoro-p-toluidine degradation 10080
 microorganisms, diuron 7279
 microorganisms, dyfonate 454
 microorganisms, ethylene 7252
 microorganisms, farm-yard manure/liquid manure 6451
 microorganisms, fertilizer 6450 10036
 microorganisms, fluorescence-staining 5468
 microorganisms, formalin fumigation 6453
 microorganisms, glucose/wheat straw/sawdust 6449
 microorganisms, Gramoxone W 1175
 microorganisms, growth factor 7582
 microorganisms, herbicide 2087
 microorganisms, herbicide degradation 5503
 microorganisms, hydrocarbon degradation 8045 10108
 microorganisms, insecticide degradation 4598
 microorganisms, insecticides 4598
 microorganisms, irrigation 4603
 microorganisms, isolation 4558
 microorganisms, lead 10088
 microorganisms, lignin degradation 6982
 microorganisms, linuron 7279 10081
 microorganisms, lupin nodule 2888
 microorganisms, metachlorine 5505
 microorganisms, mineral fertilizer 8920
 microorganisms, mineral microbiology 6408
 microorganisms, nitrogen dioxide transformation 1161
 microorganisms, nitrogen fixation 10058
 microorganisms, ochre 10084
 microorganisms, oil 5516
 microorganisms, organic matter degradation 8869
 microorganisms, paraquat 1175 7279
 microorganisms, phosphatases 10047
 microorganisms, phytotoxin 1162
 microorganisms, plant disease 6810
 microorganisms, plastics degradation 5195
 microorganisms, polyethylene degradation 4178
 microorganisms, propylene 4619
 microorganisms, pyrazone degradation 1176 1177

Subject index

Soil (Contd),

microorganisms, pyrophosphatase 10045 10046
microorganisms, Pythium aphanidermatum,
torato, fertiliser 10b5
microorganisms, Rhizobium 3646
microorganisms, rice yield decline 7885
microorganisms, seed germination 1163
microorganisms, selenium transformation 4145
microorganisms, selenium volatilization 4559
microorganisms, sewage effluent 6450
microorganisms, simazine 7279
microorganisms, straw/alfalfa degradation,
fungicide/bactericide/microbiocide 8927
microorganisms, straw burning 8037
microorganisms, straw degradation,
microbiocides 8925 8926
microorganisms, straw degradation,
microbiocides, nitrification 8929
microorganisms, subsoiling 10038
microorganisms, sulphur dioxide
transformation 1161
microorganisms, tetramethylthiuram disulphide
4611
microorganisms, thiram 4611
microorganisms, transmission electron
microscopy 8866
microorganisms, trifluralin degradation
10080
microorganisms, Vorlex 10081
microorganisms, lindane degradation 10077
microorganisms, pesticides 10071
Microsporium gypseum 6423
mineral phosphate-dissolving bacteria, red
pine 4529
Moraxella, quinoline degradation 3371
Mucor hiemalis, paraquat/diquat degradation
4602
mycobacillin 8924
Mycobacterium 8875
Mycobacterium, wax 4148
mycorrhiza 4566
mycorrhiza, white clover 4569
mycorrhizal fungi, pesticides 8917
mycotoxin 6410
Neurospora dodgei 6431
nitrate denitrification, nitrogen isotope
effect 8889 8890
nitrification 439 10041
nitrification, Arthrobacter 7267
nitrification, Aspergillus carneus, benomyl
2874
nitrification, benomyl 8888
nitrification, herbicide 5502
nitrification, irrigation 4603
nitrification, Nitrosolobus 7266
nitrification, Nitrosomonas 7266
nitrification, Nitrospira 7266
nitrification, Nuvocron/Supracids 2895
Nitrobacter, immunofluorescence 10060
nitrogen cycle 5484
nitrogen fertiliser, denitrification 1171
nitrogen fertiliser, nitrogen fixation 8892
nitrogen fixation 2413 2875 3220 4579 6440
8023 9308
nitrogen fixation, acetylene assay 10057
nitrogen fixation, Azotobacter, Aristida
oligantha rhizosphere bacteria 2075
nitrogen fixation, Clostridium 2058
nitrogen fixation, genetic manipulation 8893
nitrogen fixation, grasses 4597
nitrogen fixation, Juncus balticus 6436
nitrogen fixation, molybdenum 8024
nitrogen fixation, Rhizobium, Aristida
oligantha rhizosphere bacteria 2075
nitrogen fixation, Rhizobium + horse bean
448
nitrogen, Glomus mosseae mycorrhiza +
Liquidambar styraciflora 4527
nitrogen transformation 439
nitrogen transformation, leaching 438

Soil (Contd),

nitrous oxide reduction, acetylene 10057
Nocardia 5475
Nocardia, degradation, acid anilide
fungicides 1179
northern spruce forest, bacteria 5441
Paecilomyces carneus, cephalosporins,
paraffins 4750
Paecilomyces persicus, cephalosporins,
paraffins 4750
Paracoccus, halogenated anilines degradation
8035
parathion, nitrophenol degradation, Bacillus
6448
parathion, nitrophenol degradation,
Pseudomonas 6448
Parthenium hysterophorus rhizoplane,
mycoflora 3635
Parthenium hysterophorus rhizosphere,
mycoflora 3635
partial sterilant, Plasmodiophora brassicae,
crucifer 5424
pasture, Pithomyces chartarum, earthworm
2067
peanut, Cydrocladium crotalariae,
elutriator 1167
peanut rhizosphere, mycoflora 6421
peanut/rye, Aspergillus flavus/Aspergillus
niger 423
peat, nitrogen fixation 2071
Penicillium commune 2866
Penicillium frequentans, paraquat/diquat
degradation 4602
pentachloronitrobenzene + hydrated lime,
Plasmodiophora brassicae, crucifers 2811
pentachlorophenol degradation 8919
percolator 423
perennial ryegrass 443 444
perennial ryegrass rhizoplane microflora,
chloropicrin 457
pesticide, microbial degradation 112
pH, nitrogen fixation, Rhizobium meliloti +
alfalfa 10065
pH, nitrogen fixation, Rhizobium trifolii +
red clover 10055
Phellinus weirii 1124
Phizopus oryzae, biological control,
Syncephalis californica 8885
phosphate, mycorrhizae 8876
phosphorus fixation 8922
Phytophthora parasitica, tobacco 6305
Phytophthora cactorum oospores, parasitic
microorganisms 8881
Phytophthora cactorum, strawberry 6432
Phytophthora cactorum, tomato 6432
Phytophthora cinnamomi chlamydospores,
Trichoderma harzianum, Trichoderma
polysporum 7261
Phytophthora cryptogea, safflower 9887
Phytophthora cryptogea, tobacco 6305 6306
Phytophthora fragariae 2068
Phytophthora, hymexazol selective medium
10054
Phytophthora infestans, potato 4406 7930
Phytophthora megasperma 8884
Phytophthora megasperma oospores,
Hypochoytrium catenoides 6417
Phytophthora megasperma oospores, parasitic
microorganisms 8881
Phytophthora parasitica, betel 309
Phytophthora, plant disease 6172
Phytophthora, selective medium 7586
Phytophthora, strawberry 6432
Phytophthora, tomato 6432
pig waste 10444
pigeon pea rhizosphere, mycoflora 6422
pigeon pea rhizosphere, Pithomyces chartarum
2867
pistachio, fungi 5276

Subject index

Soil(Contd),

plant residues, Rhizoctonia solani/soil microorganisms 2870
 plant rhizosphere, Azotobacter, nitrogen fixation 6439
 plant rhizosphere, Endogone 7257
 plant rhizosphere mycoflora, seed mycoflora 4574
 plant root microorganisms 3625
 potassium azide, Sclerospora sorghi, sorghum 3575
 potassium, Fusarium oxysporum, melon 7923
 potato wastewater disposal, denitrification 4608
 Pseudomonas, benzoic acid degradation 6019
 Pseudomonas, citronellol degradation 5192
 Pseudomonas desmoliticum, p-aminobenzoic acid 431
 Pseudomonas fluorescens, denitrification 2072
 Pseudomonas, geraniol degradation 5192
 Pseudomonas, limonene degradation 5192
 Pseudomonas, linalool degradation 5192
 Pseudomonas, pentachlorophenol degradation 10082
 Pseudomonas stutzeri, denitrification 8891
 pyritic mine spoil, microbial acids 7284
 Pythium aphanidermatum, mycoparasitism, Hyphochytrium catenoides 5480
 Pythium, bean 2069
 Pythium butleri, tomato 5394
 Pythium echinulatum 7262
 Pythium myriotylum, mycoparasitism, Hyphochytrium catenoides 5480
 Pythium oospores, parasitic microorganisms 8881
 Pythium, plant damping-off 6433
 Pythium, plant disease 6172
 Pythium ultimum, mycoparasitism, Hyphochytrium catenoides 5480
 raised bog, aerobic bacteria 6412
 Rhizobium, desiccation 10061 10062
 Rhizobium, desiccation, montmorillonite 6441
 Rhizobium japonicum, herbicide 5504
 Rhizobium meliloti 5476
 Rhizobium, nitrogen fixation 3651
 Rhizoctonia pratensis, phenol oxidase, pesticide polymerization 7278
 Rhizoctonia pratensis, phenol oxidase, phenols polymerization 3305
 Rhizoctonia solani 8022
 Rhizoctonia solani, cowpea 8609
 Rhizoctonia solani, decomposing corn tissue volatiles 2871
 Rhizoctonia solani, fluometuron 8036
 Rhizoctonia solani, prometryn 8036
 rhizosphere bacteria, molybdenum 6415
 rhizosphere bacteria, trophic compounds/vitamins/hormones 3628
 rhizosphere, denitrification 3642
 rhizosphere fungi, eggplant, oilcane 2063
 rhizosphere fungi, Trigonella foenum-graecum 2064
 rhizosphere, microbial interactions 3626
 rhizosphere microorganisms, mineral fertilizer 3656
 rhizosphere microorganisms, mineral microbiology 6408
 rhizosphere, nitrification 3642
 rhizosphere, plant disease fungi 3633
 rice, fungi 8879
 rice, nitrogen fixation 2876
 rice rhizosphere, Beggiatoa 5473
 rice rhizosphere, Beijerinckia, immunofluorescence, nitrogen fixation 5486
 rice rhizosphere, denitrification 3643
 rice rhizosphere, microflora, nitrogen 6407
 rice rhizosphere, microorganisms, pesticides 8916
 rice rhizosphere, nitrogen fixation 3645

Soil(Contd),

rice, sulphate-reducing bacteria 4563
 salt-marsh, bacteria, malathion degradation 6413
 salt marsh, microorganisms + Spartina alterniflora, nitrogen fixation 7269
 salt marsh, microorganisms, toxicants 10072
 Sclerotinia sclerotiorum 2070 2872
 Sclerotium rolfsii 8883
 Sclerotium rolfsii, nitrogen fertilizer, plant protection 6347
 Scopulariopsis brevicaulis 6423
 Scots pine leaf litter, urea/urine, fungi 2035
 Scots pine roots, fungi, gibberellin-like compounds 4116
 selenium, microbial volatilisation 8870
 semi-arid, microorganisms 10037
 septic tank, waste treatment 4862
 sewage disposal 3871
 sewage effluent, poliovirus 3108
 sewage effluent/sludge spray-irrigation, Mycobacterium bovis BCG 9205
 sewage lagoon effluent irrigation, reed canarygrass, coliforms 4607
 sewage sludge 683 4604 4605
 sewage sludge, coliforms 3111
 sewage sludge disposal 6679
 sewage sludge/effluent disposal, poliovirus, vegetable crops 4561
 sewage sludge fertilizer 9194
 sewage sludge nitrification 7268
 sewage sludge + Pisolithus tinctorius mycorrhiza, pine 3601
 silicate microorganisms, isolation 4558
 slime mould, isolation methods 8016
 sludge 8214
 sludge compost 4605
 soft-rot fungi 10019
 sorghum, Sclerospora sorghi 1037
 Sorghum vulgare rhizosphere, Xanthomonas malvacearum/Pseudomonas solanacearum/Fusarium moniliforme/Helminthosporium sativum 2856
 soybean rhizosphere, bacteria, Azotobacter 8015
 Spirillum lipoferum, denitrification, nitrogen fixation 5499 5500
 Spirillum lipoferum, nitrogen fixation 2085
 sterilant, Plasmodiophora brassicae, cabbage 6358
 straw, Cercospora herpotrichoides, wheat 5334
 straw, Fusarium, wheat 5334
 straw, Ophiobolus graminis, wheat 5334
 straw, Rhizoctonia solani, wheat 5334
 Streptomyces, antibiotics 9025
 Streptomyces candidus, spore-lytic enzyme 5097
 Streptomyces hygroscopicus, antibiotics 7423
 Streptomyces, beta-mannan degradation 9525
 Streptomyces thermocineus 2056
 Streptomyces, vitamin B12 9025
 Streptovorticillium quilensis 5709
 Streptovorticillium quilensis, antibiotic K13 7256
 Stromatinia gladioli 4389
 sulphur cycle 2855
 sunnhemp rhizosphere, Rhizobium, streptomycetes 2881
 sunnhemp rhizosphere, Xanthomonas malvacearum/Pseudomonas solanacearum/Fusarium moniliforme/Helminthosporium sativum 2856
 Swiss stone pine rhizosphere, microorganisms, amino acids 7229
 Syncephalis indica 1168
 telone C fumigation, Verticillium, potato 8720

Subject index

Soil(Contd),

temperature/flooding, *Puccinia carthami*, safflower 9889
 temperature, tomato, resistance, *Pseudomonas solanacearum* 9947
Thanatephorus cucumeris, jute 8703
Thermomonospora vulgaris 2056
Thermopolyspora glauca 2056
 thiabendazole, *Cercospora personata*, peanut 4516
Thielaviopsis basicola 436
Thielaviopsis basicola chlamydospores 6428
Thielaviopsis basicola chlamydospores, perforation lysis 6427
 tobacco rattle virus, tulip 6313
 tobacco rhizosphere, mycoflora 1165
 tomato bushy stunt virus petunia asteroid mosaic strain 7927
 tomato rhizosphere, phosphate-solubilizing bacteria 8038
Torula caligans 2867
 treatment, *Fusarium oxysporum*/*Fusarium solani*/*Fusarium roseum*/*Pythium*, okra 9969
 treatment, *Fusarium*, ponderosa pine 6391
 treatment, *Pythium*, ponderosa pine 6391
 treatment, *Rhizobium* + gram, nitrogen fixation, nodulation 5496
Trichoderma viride, diuron 7280
Trichoderma viride, fluometuron 7280
Trichoderma viride, monosodium methanearsonate 7280
Trichoderma viride, photodieldrin degradation 2896
Trichoderma viride, prometryn 7280
Trichophyton mentagrophytes 6423
Trichophyton terrestre 6423
 trifluralin, *Aphanomyces euteiches*, pea 6353
 tropical, urea, hydrolysis/nitrification 456
 ultrasonic treatment, microorganisms 425
 urea nitrogen transformation, biuret 10056
 urea, *Verticillium dahliae*, cotton 4520
 versicolin 8024
Verticillium albo-atrum 5483
Verticillium albo-atrum, barley straw amendment, potato 5415
Verticillium dahliae, caesium chloride 1170
Verticillium dahliae microsclerotia 8887
Verticillium dahliae, tomato 8886
 vesicular-arbuscular mycorrhiza, corn 4570
 vesicular-arbuscular mycorrhiza, cowpea 4570
 vesicular-arbuscular mycorrhiza, *Gigaspora gigantea*, rice 4571
 vesicular-arbuscular mycorrhiza, plants 4567
 vesicular-arbuscular mycorrhiza, sheep's fescue 4568
 vesicular-arbuscular mycorrhiza, tomato 4570
 vineyard, microflora, intercalary ray grass culture 426
 waste effluent irrigation 9189
 waste orchardgrass, microorganisms 10040
 wastewater 3106
 wastewater disposal, viruses 4606
 wastewater irrigation, bacteria 3874
 wastewater rapid infiltration, viruses, bacteria 6710
 wastewater treatment 3870
 wastewater treatment, viruses/bacteria 2302
 water, matric potential, microbial plant disease 7863
 water, nitrogen fixation 5002
 water, nitrogen fixation, *Rhizobium* + soybean 4595
 weed rhizosphere, microflora, nitrogen 6407
 wheat, *Fusarium* 8882
 wheat, microbial disease, straw fertilisation/straw burning 1887
 wheat rhizosphere, microorganisms 4560 8872
 wheat rhizosphere mycoflora 3636
 wheat rhizosphere, nitrogen fixation 4579

Soil(Contd),

wheat straw degradation, acetic acid, phytotoxin 7251
 wood-decomposing fungi, Pg pigment 7259
 wood degradation 9995
Xanthomonas oryzae, rice 1031
Yersinia pseudotuberculosis 10350
Zygorhynchus heterogamus, paraquat/diquat degradation 4602
Soil fungicide,
Phytophthora maydis, corn 8794
Phytophthora cinnamomi, Lawson cypress 8843
Thielavia terricola, sesame 381
Soil microorganisms,
 2888
Soil microorganisms: Effect of insecticides, nematodes and herbicides,
 454-455, 1175-1177, 2086, 2387, 2895-2898, 3653-3655, 4598-4602, 5502-5505, 6448, 7278-7281, 8034-8036, 8916-8919, 10071-10082
Soil microorganisms: General,
 423-437, 1160-1170, 2054-2070, 2855-2872, 3623-3640, 4556-4578, 5468-5483, 6406-6433, 7246-7262, 8014-8022, 8866-8887, 10036-10055
Soil microorganisms: Nitrogen fixation,
 438-453, 1171-1174, 2071-2085, 2873-2894, 3641-3652, 4579-4597, 5484-5501, 6434-6447, 7263-7277, 8023-8033, 8888-8915, 10056-10070
Soil microorganisms: Other soil treatments,
 456-459, 1178-1179, 2899, 3656, 3657, 4603-4612, 5506, 6449-6453, 7282, 8037, 8038, 8920-8928
Soil treatment,
 eggplant rhizosphere mycoflora 3634
 microbial diseases, squash 7956
Solanaceae,
 belladonna mottle virus 5363
 Clitoria yellow vein virus 6181
 Nicotiana velutina mosaic virus 1908
 Phoma solanicola 3523
 Phytophthora 6172
 Pythium 6172
Solanum carolinense,
 extracts, antibacterial agent 10141
 tobacco etch virus 1936
Solanum demissum,
 potato virus S 324
 resistance, *Phytophthora infestans* 3558
Solanum gilo,
 resistance, little leaf disease 5409
Solanum integrifolium,
 resistance, little leaf disease 5409
Solanum khasianum,
 Solanum khasianum mosaic virus 3528
Solanum khasianum mosaic virus,
 Solanum khasianum 3528
Solanum laciniatum,
 cucumber mosaic virus 7171
 potato virus X 7171
 potato virus Y 7171
 tobacco mosaic virus 7171
 tomato spotted wilt virus 7171
Solanum luteum,
 belladonna mottle virus 5363
Solanum lycopersicum,
 Phoma solanicola 3523
Solanum megistacrolobum,
 potato virus M 8715
Solanum melongena,
 alfalfa mosaic virus 9863
 brinjal mosaic virus, root-knot nematode 2740
 green mosaic virus 6265
 little leaf disease 4375
 little leaf disease, mycoplasma-like organism 5372
 little leaf, tetracycline 8829

Subject index

Solanum melongena(Contd),

Myrothecium roridum 3504
 post-harvest decay, Rhizopus stolonifer,
 fungicide 1965
 resistance, little leaf 8829
 resistance, little leaf disease 5409
 rhizosphere fungi, oilcake 2063
 rhizosphere mycoflora, soil treatment 3634
 Sclerotium rolfsii,
 cyanomethylmercuri)guanidine 2011
 Septoria lycopersici 336
 tobacco ringspot virus 8692
 Verticillium albo-atrum 9846
 Verticillium dahliae 1048 1049 4370
 Verticillium dahliae, fungicide 4489

Solanum nigrum,

potato virus Y 9845

Solanum pseudocapsicum,

extracts, antibacterial agent 10141
 Oidiopsis/Leveillula tauxica 5299

Solanum pubescens,

little leaf disease 3529

Solanum stoloniferum,

potato virus M 8715

Solanum tuberosum,

Alternaria solani, fungicide 5418
 Alternaria solani, fungicide + sprinkler
 irrigation system 7970
 anhydro-beta-rotunol, antifungal agent 3568
 Botrytis cinerea 327
 Botrytis cinerea phospholipase 3309
 Corynebacterium sepedonicum 3521
 dried pulp, preservation, propionic
 acid/ammonia 4233
 Erwinia carotovora 4403 6259 7163 7164 8717
 Erwinia carotovora + Clostridium post-harvest
 decay 9920
 Erwinia carotovora phosphatidase C 4102
 Erwinia carotovora endo-polygalacturonate
 trans-eliminase 4102
 Erwinia carotovora post-harvest decay 4445
 Erwinia carotovora post-harvest decay,
 resistance 3543
 Erwinia carotovora protease 4102
 Erysiphe cichoracearum, fungicide 4493
 fungal disease 5296
 Fusarium avenaceum,
 rishitin/phytuberin/solavetivone/desacetylph
 ytuberin, assay 3567
 Fusarium coeruleum, pectinmethylesterase,
 polygalacturonase, cellulase, protease 8718
 Fusarium oxysporum 8719
 Fusarium solani, scopolin 3522
 Fusarium sulphureum, pectinmethylesterase,
 polygalacturonase, cellulase, protease 8718
 Glomus fasciculatus 3637
 Glomus mosseae 3637
 Helminthosporium solani 7929
 Helminthosporium solani, fungicide seed
 dressing 7993
 gamma-irradiation, aflatoxin 3432
 Leveillula 4297
 lubimin, fungi, 15-dihydrolubimin 7967
 microbial post-harvest decay,
 gamma-irradiation 8757
 microorganisms, phytoalexins 4495
 Oospora pustulans post-harvest decay 6325
 pathogenic fungi 4366
 Pectobacterium carotovorum post-harvest
 decay, chloramphenicol 6324
 Pectobacterium carotovorum post-harvest
 decay, streptomycin 6324
 Phoma exigua, fungicide 7947
 Phoma exigua post-harvest decay 4444
 Phoma exigua,
 rishitin/phytuberin/solavetivone/desacetylph
 ytuberin, assay 3567
 Phoma exigua, scopolin 3522
 Phoma solanicola 3523

Solanum tuberosum(Contd),

Phytophthora erythroseptica post-harvest
 decay 9921
 Phytophthora infestans 1076 2754 4364 4404
 4405 4406 4407 4408 6287 7165 7931 9882
 9883
 Phytophthora infestans,
 aminomethylenemalononitrile derivatives
 3578
 Phytophthora infestans, aphicide/fungicide
 2008
 Phytophthora infestans, electron microscopy
 3524 6288
 Phytophthora infestans, fungicide 4404 7203
 Phytophthora infestans, insecticide 4501
 Phytophthora infestans, phytoalexin 2793
 Phytophthora infestans, rishitin 6351
 Phytophthora infestans,
 rishitin/lubimin/rishitinol 1940
 Phytophthora infestans, rishitin/Lyubimin
 4495
 Phytophthora infestans, rishitin/necrosis
 6286
 Phytophthora infestans,
 rishitin/phytuberin/solavetivone/desacetylph
 ytuberin, assay 3567
 Phytophthora infestans, scopolin 3522
 Phytophthora infestans, soil 7930
 Phytophthora infestans, streptomycin,
 phytoalexin 3525
 phytuberin, antifungal agent 3568
 post-harvest decay, Erwinia carotovora 351
 post-harvest decay, Fusarium roseum 351
 post-harvest decay, Phoma exigua 1973 1974
 post-harvest decay, Rhizopus arrhizus,
 fungicide 1945
 potato aucuba mosaic virus, pepper leaf test
 4401
 potato leaf roll virus 6283 7162
 potato leaf roll virus, insecticide 1097
 potato mop-top virus 4402
 potato spindle tuber viroid 5385
 potato spindle tuber viroid, piperonyl
 butoxide 9985
 potato spindle tuber viroid, polyacrylamide
 gel electrophoresis 6284
 potato virus A 1939
 potato virus M 325
 potato virus M, electrophoresis 5384
 potato virus M + potato virus S + potato
 virus X 9881
 potato virus M, test plants 324
 potato virus S 9880
 potato virus S, electrophoresis 5384
 potato virus S, heat treatment 4474
 potato virus S + potato virus X 9880
 potato virus S, test plants 324
 potato virus X 9880
 potato virus X, electrophoresis 5384
 potato virus X, gamma-irradiation 1075
 potato virus X/potato virus S/potato virus
 M/potato virus Y serology 9303
 potato virus X resistance 1988
 potato virus Y 326 6304
 potato virus Y, electrophoresis 5384
 potato virus Y, oil emulsion 9953
 purple top roll disease, mycoplasma-like
 organism 5386
 resistance, Cercospora colanituberosi 7957
 resistance, Erwinia carotovora 9941
 resistance, Fusarium solani 8758
 resistance, Phytophthora infestans 6342
 resistance, Rhizoctonia solani 4409
 resistance, Synchytrium endobioticum 3559
 3560
 resistance, Synchytrium endobioticum,
 Glynn-Lemmerz method 328
 resistance, Verticillium dahliae 7166
 Rhizoctonia solani 1077 4409 9884

Subject index

Solanum tuberosum(Contd),

- Rhizoctonia solani, benomyl seed treatment 4526
- Rhizoctonia solani, nematode-inhibiting substance 3526
- Rhizoctonia solani phytotoxin 4267
- Rhizoctonia solani, seed treatment fungicide 2C33
- rishitin, antifungal agent 3568
- Sclerotinia sclerotiorum endo-beta-1,4-galactanase 9390
- Sclerotinia sclerotiorum, scanning electron microscopy 6173
- silage, cattle feed 9641
- solavetivone, antifungal agent 3568
- spindle tuber disease viroid, column chromatography 6164
- Spongopora subterranea 4410
- Streptomyces scabies 4996
- Streptomyces scabies, chlorogenic acid/chlorogonoplast 1975
- Streptomyces scabies, fertilizer 1941
- Synchytrium endobioticum 7932
- tobacco rattle virus, plant protection 7928
- tobacco ringspot virus 6285
- Verticillium albo-atrum 7164
- Verticillium albo-atrum, soil, barley straw amendment 5415
- Verticillium dahliae 7166 9885
- Verticillium nubilum, coiled sprout 6289
- Verticillium, telone C 8720
- vesicular-arbuscular mycorrhiza, phosphorus fertiliser 8878
- virus diseases 4364
- Solavetivone,**
 - Phytophthora infestans, potato 2793
- Solavetivone,**
 - antifungal agent 3568
 - Phytophthora infestans, potato 2793
 - potato, Phytophthora infestans/Fusarium avenaceum/Phoma exigua, assay 3567
- Sole,**
 - frozen, microorganisms 9585
- Solidago canadensis,**
 - Erysiphe cichoracearum 304
- Solubilisation,**
 - phosphate, soil bacteria 6414
- Solvent,**
 - lipid, mycophagy 3182
 - organic, Streptomyces preservation 5609
- Somatic cell,**
 - somatic cells, membrane filter-DNA test 6995
- Somatic cell count,**
 - electronic, milk 5207
- Sonchus oleraceus,**
 - sowthistle yellow vein virus 6296
 - Synchytrium aureum 7105
- Sonication,**
 - activated sludge floc, bacteria, isolation medium 6687
 - yeast, bread dough 8513
- Sorbate,**
 - + fructose, antibacterial agent/antifungal agent 5593
 - Byssoschlamys nivea 4252
 - Byssoschlamys nivea spores, food 3423
 - cheese preservation 3426
 - fish-cake preservation 4247
 - food preservation 7794
 - Karelian pasty preservation, Bacillus cereus/Bacillus subtilis 8551
 - Staphylococcus aureus, intermediate moisture food 1782
- Sorbic acid,**
 - assay, Rhodotorula rubra/Cryptococcus albidus 853C
 - fish-cake preservation 4247
 - food preservative 8529
 - fungicide, animal feed/plant protection 2794

Sorbic acid(Contd),

- Karelian pasty preservation, Bacillus cereus/Bacillus subtilis 8551
- preservation, pet feed 1776
- Saccharomyces, wine 9515
- Sorbidip,**
 - cheese preservation 3426
- Sorbistin,**
 - derivatives, antibacterial agent 9153
 - Pseudomonas sorbicinii 7454
 - Pseudomonas sorbicinii, antibacterial agent 7453
 - Pseudomonas sorbicinii, structure 7455
- Sorbitol,**
 - antibacterial agent/antifungal agent 5593
 - colostrum preservation 9649
- D-sorbitol,**
 - L-sorbitose, Acetobacter melanogenum 2512
- L-sorbitose,**
 - Acetobacter melanogenum, D-sorbitol 2512
 - Gluconobacter melanogenus enzymes, L-sorbitose, 2-keto-L-gulonic acid, L-idonic acid 5024
 - Gluconobacter melanogenus, L-sorbitose 3351
 - 2-keto-L-gulonic acid, Gluconobacter melanogenus 3229
 - 2-keto-L-gulonic acid, Klebsiella pneumoniae 3229
 - 2-keto-L-gulonic acid, Pseudomonas putida 3229
 - 2-keto-L-gulonic acid, Serratia marcescens 3229
 - L-sorbitose, Gluconobacter melanogenus 3229
 - L-sorbitose, Klebsiella pneumoniae 3229
 - L-sorbitose, Pseudomonas putida 3229
 - L-sorbitose, Serratia marcescens 3229
- L-sorbitose,**
 - Gluconobacter melanogenus, L-sorbitose 3351
 - L-sorbitose, Gluconobacter melanogenus enzymes 5024
- Soreshin,**
 - Rhizoctonia solani, cotton 2739
 - Rhizoctonia solani, cotton, fungicide 4523
- Sorghum,**
 - + Spirillum, nitrogen fixation 453 5501
 - Aspergillus niger 1885
 - Colletotrichum circinans 1885
 - Colletotrichum graminicola, toxin 1884
 - Fusarium moniliforme, toxin 1884
 - Helminthosporium sorghicola 286
 - post-harvest decay mycoflora 7191
 - Sclerospora sorghi 1037
 - Sclerospora sorghi, zinc + maneb 1107
 - seed, Azotobacter fertilizer 3629
 - Sphacelia sorghi, Ischaemum pilosum 8649
 - Thielaviopsis paradoxa 1885
 - Tolyposporium chrenbergii 4346
- Sorghum aluum,**
 - Periconia circinata 4345
- Sorghum arundinaceum,**
 - peanut clump virus 6220
- Sorghum bicolor,**
 - Cercospora sorghi, fungicide 7973
 - Gloeocercospora sorghi, fungicide 7973
 - Periconia circinata 4345
 - Pseudomonas 4316
 - Sclerospora sorghi 287
 - Sclerospora sorghi, potassium azide 3375
 - Tolyposporium ehrenbergii 4346
 - virus disease 1869
- Sorghum downy mildew,**
 - Sclerospora sorghi, corn 2695 7884
- Sorghum halepense,**
 - maize chlorotic dwarf virus 8631
 - maize chlorotic dwarf virus, corn 5320
 - maize dwarf mosaic virus 8631
 - maize dwarf mosaic virus, corn 5320
 - Periconia circinata 4345
 - Pseudomonas 4316
 - Ramulispora sorghi 3485

Subject index

Sorghum vulgare,

- + Spirillum, nitrogen fixation 5501
- gamma-irradiation, aflatoxin 3432
- Ramulispora sorghi 3485
- rhizosphere, Xanthomonas malvacearum/Pseudomonas solanacearum/Fusarium moniliforme/Helminthosporium sativum 2856
- seed, Aspergillus flavus 1838
- soil cores, nitrogen fixation 6437

Sorosporium reilianum,

- corn 5329

Sour cream,

- lactase 7002

Sour rot,

- Geotrichum candidum, lemon post-harvest decay, 1-[beta-(allyloxy)-2,4-dichlorophenethyl]-imidazole 3541
- Geotrichum candidum, mandarin orange 4440
- Geotrichum candidum, peach post-harvest decay 7190
- Monilia implicata, peach post-harvest decay 7190

South American leaf blight,

- Microcyclus ulei, rubber 1947 1948

Southern bean mosaic virus,

- cowpea 1847
- pollen, plant disease 7103
- RNA 4991
- sodium dodecyl sulphate 2397
- soybean callus culture 5294
- urd bean 7869

Southern blight,

- Sclerotium rolfsii, creeping bentgrass 5319
- Sclerotium rolfsii, tomato 8740

Southern corn leaf blight,

- Bipolaris maydis, corn, biological control 1998
- Helminthosporium maydis 275
- Helminthosporium maydis, corn, resistance 1983

Southern leaf blight,

- Helminthosporium maydis, corn 7124
- Helminthosporium maydis, corn, ozone 9791
- Helminthosporium maydis, corn, resistance 7197
- Helminthosporium maydis, pathotoxin, corn 7125

Southern stem blight,

- Sclerotium rolfsii, apple, plant protection 7136
- Sclerotium rolfsii, tomato, plant protection 9951

Southern stem rot,

- Sclerotium rolfsii, peanut, fungicide 9960

Sowbane,

- sowbane mosaic virus 5387

Sowbane mosaic virus,

- sodium dodecyl sulphate 2397
- sowbane 5387

Southistle,

- southistle yellow vein virus 6296
- Synchytrium aureum 7105

Southistle yellow vein virus,

- southistle 6296

Soy sauce,

- 1715 7703 7704 7705
- Aspergillus oryzae 9604
- Aspergillus oryzae enzymes 5183
- Aspergillus sojae enzymes 5183
- fermentation, microorganisms 4164

Soybean,

- + Rhizobium 4593
- + Rhizobium japonicum 6447 8030

Soybean (Contd),

- + Rhizobium japonicum + Azotobacter chroococcum, nodulation/nitrogen fixation 1174
- + Rhizobium japonicum, metachlorine 5505
- + Rhizobium japonicum, nitrogen fixation 451 1173 2890 5498 8033 8912 8913
- + Rhizobium japonicum, nitrogen fixation, nitrate reductase 2485
- + Rhizobium japonicum, nitrogen fixation, urea 4595
- + Rhizobium japonicum, nodulation/nitrogen fixation 1172 2082 8032
- + Rhizobium, nitrogen fixation 452 2083 2413 2891 3651 8911
- + Rhizobium, nitrogen fixation, rhizosphere oxygen 7276
- + Rhizobium, nitrogen fixation, soil water 4595
- + Rhizobium, nitrogen fixation, urea 7277
- + Rhizobium, nodulation/nitrogen fixation 3650
- Aspergillus flavus, aflatoxin 979
- Aspergillus oryzae fermented, Japanese quail feed 946
- Aspergillus parasiticus, aflatoxin 979
- bean pod mottle virus, bean leaf beetle 4309
- beet western yellows virus 6197
- callus culture, southern bean mosaic virus 5294
- Cercospora kikuchii 5310
- Cercospora sojae 6196
- cheese spread, lactic acid bacteria 9599
- Colletotrichum dematium 4311
- Colletotrichum truncatum 6196
- Diaporthe 6196
- Diaporthe sojae 5310
- dried, mycoflora 9595
- Erysiphe 2682
- fermentation, idli 7027
- fermentation, tempeh, Rhizopus oligosporus, phytase, phytate 9598
- food products, Clostridium perfringens 5201
- food products, aflatoxins 8565
- fungal post-harvest decay, chitin assay 9907
- fungicide seed dressing + dichloromethane 2031
- Fusarium 5311
- Fusarium moniliforme 4311
- Fusarium oxysporum 5311
- Fusarium roseum 5311
- Fusarium semitectum 4311
- Fusarium solani 5311
- Fusarium tricinatum 5311
- Lectins, + Rhizobium, nitrogen fixation 8899
- Macrophomina phaseolina 1016 6196
- Macrophomina phaseolina, melanin-like compound 2683
- microbial diseases 9769
- Microsphaera 2682
- Microsphaera diffusa 3471 6196 6200 8616 9771
- milk, fermented 190
- milk, Karish cheese 9569
- milk, Lactobacillus acidophilus, yoghurt 5216
- milk, yoghurt, Lactobacillus acidophilus, lysine 5205
- milk, yoghurt, Lactobacillus bulgaricus, lysine 5205
- miso, lipids 9597
- mycoflora, mycotoxins 9596
- natto, Bacillus natto, nitrite, nitroso compound 8515
- nodule, Rhizoctonia solani 3472
- peanut mottle virus 9770
- Peronospora manshurica 5312 6196
- Phakopsora pachyrhizi 4312 6196 6201
- Phytophthora megasperma 1861 6202 7116 8617 8618

Subject index

Soybean(Contd),

- Phytophthora megasperma, pyroxychlor seed treatment 2030
- Pleosphaerulina sojaicola 6196
- protein, + beef, patties, bacteria 7764
- protein, + chicken, patties, bacteria 7764
- Pseudomonas syringae 6196
- Pythium 6196
- Pythium irregulare 5313
- Pythium myriotylum 5313
- resistance, Microsphaera diffusa 8616
- resistance, peanut mottle virus 2778
- resistance testing, Phytophthora megasperma 4475
- Rhizobium japonicum 2892
- Rhizobium, phenols degradation 6021
- Rhizobium seed treatment 8031
- Rhizoctonia solani 8619
- rhizosphere, bacteria, Azotobacter 8015
- seed, Bacillus subtilis, penicillin G seed treatment 8615
- seed, Cercospora kikuchii 6199
- seed coat, waste, fermentation, methane bacteria, methane, Aspergillus niger hemicellulolytic enzyme 10095
- seed, fungi, seed treatment 1859
- seed, microorganisms 4310
- seed, Nematospira coryli 1860
- seed treatment, Rhizobium + fungicide 10070
- Septoria glycines 6196
- soybean mosaic virus 3470 7874 8613 8614
- soybean mosaic virus, Rhizobium japonicum, nitrogen fixation 6198
- tempeh, Rhizopus oligosporus 940
- Thanatephorus cucumeris 6196
- Thielaviopsis basicola, biological control 363
- virus diseases 6196
- Xanthomonas ampelina 6196
- yellow mosaic virus 2673
- Soybean-beef loaf,**
- hospital chill food-service system, microbiology 5232
- Soybean meal,**
- yoghurt, Streptococcus thermophilus/Lactobacillus bulgaricus 189
- Soybean mosaic virus,**
- bean, assay 7109
- soybean 3470 7874 8613 8614 9769
- soybean, Rhizobium japonicum, nitrogen fixation 6198

SP127,

- + macrolide antibiotics, Pseudomonas aeruginosa 8334 8335
- Space flight,**
- hexachlorophene-impregnated underwear 4913
- slide staining device 4925
- Speceract,**
- sterilisation, heat + gamma-irradiation 9012
- Viking, microbiology 6805
- Spacelotheca reiliana,**
- corn 2696
- Spaghetti,**
- microbiology 7025
- Sparassis crispa,**
- Douglas fir 3607
- Sparsonycin,**
- structure 1439
- Spartina alterniflora,**
- + marsh soil microorganisms, nitrogen fixation 6438
- + microorganisms, nitrogen fixation 7269
- Puccinia sparganioides 3480
- Spartina pectinata,**
- Maize dwarf mosaic virus 1867
- nitrogen fixation, nitrogenase 4597
- Spearmint,**
- Verticillium dahliae 9885

Specific pathogen-free animal,

- drinking water, membrane filtration 4872
- Specimen housing unit,**
- vertical plane cinemicrography 1544
- Speck,**
- Pseudomonas tomato, tomato 7180
- Pseudomonas tomato, tomato, plant protection 5392
- Speckled leaf blotch,**
- Septoria avenae triticea, wheat 4350
- Septoria tritici, wheat 9814
- Septoria tritici, wheat, resistance 9814
- Spectinomycin,**
- antibacterial agent 2969 8113 9154
- assay 9033
- Bacteroides 8068
- dihydro- 2171
- Enterobacteriaceae 6565
- Neisseria gonorrhoeae 2997
- pig feed, swine dysentery 954
- resistance, Salmonella 8949
- selective medium, Treponema hyodysenteriae 1584
- Streptococcus mutans 552
- Streptomyces flavopersicae 2171
- Streptomyces spectabilis 1440 2171
- Spectral reflectance,**
- barley, Puccinia hordei 7120
- Spectrofluorometry,**
- aflatoxins, peanut 5274
- Spectrometry,**
- Amanita phalloides amanitins 6140
- field desorption mass, mycotoxins, food 7810
- linear programmed thermal degradation mass, bacteria 4928
- mass, aflatoxins 7813
- mass, aminocyclitol-aminoglycoside antibiotics 560
- mass, + gas chromatography, mycophenolic acid, Penicillium brevicompactum 811
- mass, gentamicin C1 3787
- mass, gentamicin C2 3787
- mass, gentamicin C3 3787
- mass, mycotoxins 5259
- mass, N-acetylated daunorubicin derivatives 2527
- mass, + pyrolysis, microorganisms 5824
- mass, salinomycin/salinomycin derivatives 3076
- Spectrophotometer,**
- fluorescence, aflatoxin M1 + aflatoxin B1 assay, milk/dairy product 7059
- Spectrophotometry,**
- bacterial endotoxin assay 9724
- bacterial endotoxin, plasma 3440
- cephalexin 9058
- cephaloridine 9058
- cephalothin 9058
- chlortetracycline + cerium assay 9109
- neomycin 610
- polyene antibiotics assay 9105
- rifamycin O assay, rifamycin S 10319
- rifamycin S assay, rifamycin O 10319
- umbelliferone derivatives, Mycobacterium enzyme assay 8276
- Spectroscopy,**
- see also under Nuclear magnetic resonance spectroscopy etc.
- C-13 nuclear magnetic resonance, biosynthesis 10530
- C-13 nuclear magnetic resonance, leucomycin, Streptomyces kitasatoensis 10376
- C-13 nuclear magnetic resonance, narasin, Streptomyces aureofaciens 5748
- C-13 nuclear magnetic resonance, novobiocin 5754
- C-13 nuclear magnetic resonance, oxaline, Penicillium oxalicum 5127
- C-13 nuclear magnetic resonance, polyene antibiotics, hemiketal structure 5703

Subject index

Spectroscopy (Contd),

C-13 nuclear magnetic resonance, tylosin, *Streptomyces fradiae* 10376
carbon-13 nuclear magnetic resonance, aflatoxin B1 7054
carbon-13 nuclear magnetic resonance, aflatoxin B2 7054
carbon-13 nuclear magnetic resonance, aflatoxin B2a 7054
carbon-13 nuclear magnetic resonance, aflatoxin B3 7054
carbon-13 nuclear magnetic resonance, aflatoxin D1 7054
carbon-13 nuclear magnetic resonance, aflatoxin G1 7054
carbon-13 nuclear magnetic resonance, aflatoxin G2 7054
carbon-13 nuclear magnetic resonance, aflatoxin G2a 7054
carbon-13 nuclear magnetic resonance, amphotericin B, cyclic hemiketals 6567
carbon-13 nuclear magnetic resonance, bleomycin 10355
carbon-13 nuclear magnetic resonance, broxoviomycin 8200
carbon-13 nuclear magnetic resonance, dihydrosterigmatocystin 7054
carbon-13 nuclear magnetic resonance, dihydroviomycin 8200
carbon-13-nuclear magnetic resonance, ezomycin 10367
carbon-13 nuclear magnetic resonance, lucensomycin, cyclic hemiketals 6567
carbon-13 nuclear magnetic resonance, o-methyl dihydrosterigmatocystin 7054
carbon-13 nuclear magnetic resonance, o-methylsterigmatocystin 7054
carbon-13 nuclear magnetic resonance, nybomycin 10395
carbon-13 nuclear magnetic resonance, nystatin A1, cyclic hemiketals 6567
carbon-13 nuclear magnetic resonance, pimaricin, cyclic hemiketals 6567
carbon-13 nuclear magnetic resonance, rubrosulphin 6948
carbon-13 nuclear magnetic resonance, sterigmatocystin 7054
carbon-13 nuclear magnetic resonance, tetrin A, cyclic hemiketals 6567
carbon-13 nuclear magnetic resonance, tetrin B, cyclic hemiketals 6567
carbon-13 nuclear magnetic resonance, vancomycin 7457
carbon-13 nuclear magnetic resonance, viomellein 6948
carbon-13 nuclear magnetic resonance, viomycin 8200
carbon-13 nuclear magnetic resonance, viopurin 6948
carbon-13 nuclear magnetic resonance, xanthomycin 6948
carbon magnetic resonance, spectinomycin, *Streptomyces spectabilis* 1440
deuterium nuclear magnetic resonance, griseofulvin, *Penicillium urticae* 3070
electron 6812
F-19 nuclear magnetic resonance, *Escherichia coli* fluorine-labelled RNA 5989
fluctuation, DNA molecular weight 2362
mass, lucensomycin 7364
mass, pimaricin 7364
mass, polyene antibiotic 7364
mass, rimocidin 7364
mass, tetracyclin 7364
mass, tetrin A 7364
mass, tetrin B 7364
nuclear magnetic resonance, adriamycin 3338
nuclear magnetic resonance, daunomycin, *Streptomyces peucetius* 877

Spectroscopy (Contd),

nuclear magnetic resonance, daunorubicin 3338
nuclear magnetic resonance, penicillins 3036
nuclear magnetic resonance, sporidesmin 4269
nuclear magnetic resonance, sporidesmin-D 4269
proton magnetic resonance, ergosterol, *Saccharomyces cerevisiae/Neurospora crassa/Agaricus* 9440
proton magnetic resonance, vancomycin 8199
Raman, dinactin ion complexation 6617
Raman, monactin ion complexation 6617
Raman, nonactin ion complexation 6617
Raman, valinomycin 8197 8198
X-ray 6812
Spectrum,
nuclear magnetic resonance, diatretyne 2 1414
Spergon,
resistance, *Rhizobium*, legume seed treatment 7273
Spermidine,
Escherichia coli, antibiotics resistance 2098
Salmonella typhi, antibiotics resistance 2098
Sphacelia segetum,
Claviceps purpurea, rye 1883
Sphacelia sorghi,
Ischaemum pilosum, sorghum sugary disease 8649
Parthenium hysterophorus extract 2932
pearl millet 1027
Sphaceloma,
cassava 7909
Sphaceloma curcumae,
culture/sporulation medium 3203
toxin 3203
Sphaceloma murrayae,
willow 10018
Sphaerotheca fuliginea,
pyrimidine derivatives 2020
Sphaerophorus mortiferum,
cefoxitin/cephalothin 10273
Sphaerophorus necrophorus,
see also *Fusobacterium necrophorum*
cefoxitin/cephalothin 10273
ipronidazole, animal feed 1773
Sphaerophorus varius,
cefoxitin/cephalothin 10273
thiamphenicol/chloramphenicol 9096
Sphaeroplast,
Escherichia coli 4029
Sphaeropsidales,
antibiotics, antibacterial agent/antifungal agent/antiprotozoal agent/antivermal agent 5617
Sphaeropsis,
8291
Sphaeropsis malorum,
stone fruit trees 9817
Sphaeropsis tumefaciens,
Natal-plum 5380
Sphaerotheca,
powdery mildew, plants 5298
triazolyl-O,N-acetal derivatives, plant protection 394
Sphaerotheca fugax,
Geranium sanguineum 304
Sphaerotheca fuliginea,
+ bottle-gourd mosaic virus, bottle-gourds 2730
benzimidazole resistance, plant protection 7204
Bidens biternata 1002
bottle gourd 304
cucumber, 2-aminopyrimidine derivatives 395
cucumber, imidazo-pyrimidine derivatives 4512

Subject index

- Sphaerotheca fuliginea**(Contd),
 cucumer, fungicide 378
 cucurbit 1056
 cucurbit, fungicide 4491
 Cucurbita 304
 Erysiphe graminis hordei, barley 5317
 Phlox paniculata 304
 phosphoryl phenyldiamine derivatives 1118
 Veronica incana 304
 watermelon 9906
- Sphaerotheca humuli**,
 Kalanchoe blossfeldiana, resmethrin. 4500
- Sphaerotheca macularis**,
 Filipendula ulmaria 304
 Filipendula vulgaris 304
 red raspberry, resistance 9942
- Sphaerotheca mors-uvae**,
 American gooseberry 4292
 blackcurrant 8681
 blackcurrant, fungicide 7905
 blackcurrant, resistance 4457 4458
- Sphaerotheca pannosa**,
 peach, fungicide 2795 2796
 rose, fungicide 1101 2795 2796
 rose, resmethrin 4500
- Sphaerotilus**,
 activated sludge bulking, hydrogen peroxide 9193
- Sphaerotilus discophorus**,
 manganese 3659
- Sphaerotilus natans**,
 carbamylxy-benzamide derivatives 4691
 estuarine water/sediment, petroleum degradation 10109
 marine, petroleum degradation 10111
- Sphalerite**,
 Thiobacillus ferrooxidans, zinc leaching 1181
- Spicaria violacea**,
 caesium radioisotope enrichment, microbiological collector 4987
 calcium radioisotope enrichment, microbiological collector 4987
 thallium radioisotope enrichment, microbiological collector 4987
- Spice**,
 Bacillus cereus 6089
 coliform 1761
 Enterobacter hafniae 1761
 Enterobacter liquefaciens 1761
 Escherichia coli 1761
 fungi 4224
 ground, Aspergillus flavus, aflatoxin 4262
 ground, Aspergillus glaucus 4262
 ground, Aspergillus niger 4262
 ground, Thermoactinomyces vulgaris 4262
 Klebsiella ozaenae 1761
 Klebsiella pneumoniae 1761
 microorganisms 4223
 Pectobacterium 1761
 rosemary extractive, antibacterial agent, meat 6126
 Salmonella 1762
 Vibrio parahaemolyticus 1763
 Vibrio parahaemolyticus, seafood 9588
- Spiculisporic acid**,
 open-ring acid, Penicillium spiculisporum 5893 5894
- Spiloea oleagina**,
 olive 9875
- Spiloea pomi**,
 conidia, apple 1898
 Venturia inaequalis, apple 2719
- Spin labelling**,
 microbiology 2411
- Spinacea oleracea**,
 aster yellows, Mycoplasma-like organism 7172 7935
 Cercospora beticola 2661
 resistance, Peronospora farinosa 7958
- Spinach**,
 aster yellows, Mycoplasma-like organism 7172 7935
 Cercospora beticola 2661
 cooked, bacteriology 8516
 Fusarium oxysporum, plant protection 1951
 Fusarium roseum, plant protection 1951
 Fusarium solani, plant protection 1951
 latent rosette disease, rickettsia-like organism 7173
 Pythium irregulare, plant protection 1951
 Pythium, plant protection 1951
 resistance, Peronospora farinosa 7958
 Rhizoctonia solani, plant protection 1951
 latent rosette disease, rickettsia-like organism 7173
- Spiraea douglasii**,
 arabis mosaic virus 250
- Spiral plate count method**,
 milk 136
- Spiramycin**,
 chicken feed, residues 4230 7783
 Micrococcus luteus, antibiotic sensitivity testing 8112
 Neisseria gonorrhoeae 8118
 rabbit feed 7040
 resistance, Staphylococcus hyicus 9045
 Staphylococcus aureus 3002
 Staphylococcus hyicus 3002 9045
- Spirillaceae**,
 penicillin derivatives 1356
- Spirillum**,
 + corn, nitrogen fixation 453
 + Potamogeton filiformis, nitrogen fixation 2894
 + sorghum, nitrogen fixation 453
 sulphur reduction 6458
- Spirillum lipoferum**,
 + guinea + grass, nitrogen fixation 2893
 + pearl millet, nitrogen fixation 2893
 culture 3296 4967
 nitrogen fixation 3296
 nitrogenase 3296
 soil, denitrification, nitrogen fixation 5499 5500
 soil, nitrogen fixation 2085
- Spirit**,
 aroma composition 5166
 potato mash saccharization, Aspergillus niger 5181
- Spirochaetaceae**,
 penicillin derivatives 1356
- Spirochaete**,
 wastewater activated sludge 4865
- 6-Spirocycloalkylamino 5-nitropyrimidine**,
 derivatives, bacteriostat 2947
- Spiroidium**,
 cephalosporin 6568
- Spiroidium fuscum**,
 deacetoxycephalosporin C 10282
- Spiromycin**,
 Streptococcus mutans 552
- Spiroplasma**,
 corn 5321
 corn stunt, broad bean 9782
 corn stunt, corn 9782
 corn stunt, culture medium 10590 10591
 corn stunt, periwinkle 9782
 plant disease 8591
- Spiroplasma citri**,
 amphotericin B methyl ester 4780
 Citrus stubborn disease 3517
 culture medium 10590
 orange little-leaf disease 7141
 periwinkle 3517
 sweet orange, leafhopper 9831

Subject index

- Spodoptera frugiperda**,
cell culture, *Autographa californica* nuclear
polyhedrosis virus 4010
- Spodoptera litura** nuclear polyhedrosis virus,
insecticide 890
- Sponge cake**,
propionic acid preservation 9684
- Spongospora subterranea**,
potato 4410
- Sporamycin**,
antitumour antibiotic 9464
Streptosporangium, antitumour antibiotic,
antibacterial agent 6940
Streptosporangium pseudovulgare, antitumour
antibiotic/antibacterial agent 8420
- Spore**,
fungal 7579
fungal, river water 3134
fungal, soil, microbial degradation 432
- Spore collection device**,
Nomuraea rileyi 3201
- Spore-lytic enzyme**,
Streptomyces candidus 5097
- Sporicidal test**,
765 766
- Sporicide**,
chlorine compounds, canned food cooling water
1780
glutaraldehyde 3907 3908
sterilisation 5602
Streptomyces candidus spore-lytic enzyme
5097
- Sporidesmin**,
nuclear magnetic resonance spectroscopy 4269
- Sporidesmin-D**,
nuclear magnetic resonance spectroscopy 4269
- Sporidesmium vagum**,
jamun tree 4538
- Sporidiobolus johnsonii**,
esterase, cephalosporins 8132
- Sporidiobolus ruinenii**,
esterase, cephalosporins 8132
- Sporobolomyces**,
acetoin 3344
S-adenosylmethionine/methylthioadenosine 871
1687
diacetyl 3344
dry sausage 7770
plant leaf, pollen 2660
slime, fibreboard industry 10471
urea hydrolysis, Berthelot colour reaction
6795
- Sporobolomyces roseus**,
biological control, *Cochliobolus sativus*,
wheat 6352
esterase, cephalosporins 8132
loganberry, post-harvest decay 6321
- Sporobolomyces salmonicolor**,
esterase, cephalosporins 8132
- Sporobolus asper**,
maize dwarf mosaic virus 1867
- Sporobolus diander**,
Uromyces tenuiculis 997
- Sporobolus heterolepis**,
nitrogen fixation, nitrogenase 4597
- Sporodesmin**,
Pithomyces chartarum, animal feed 972
- Sporofusarin**,
Fusarium sporotrichiella 4270
- Sporopollenin**,
Myxococcus 9484
- Sporosarcina ureae**,
flocculation, bentonite 10535 10536
- Sporostat**,
nisin 1430 1433
nisin, *Bacillus cereus* 1431
nisin, *Bacillus subtilis* 1431 1432
- Sporotrichum**,
coal mine soil 2062 5479
rapamycin 1437
- Sporotrichum bombycinum**,
cellulase 7613
paper degradation 2551
- Sporotrichum insolens**,
enzymes 9350
- Sporotrichum pulverulentum**,
lignin degradation, phenol oxidase 2052
- Sporotrichum schenckii**,
cycloalkyl-4-oxocoumarin-3-carboxylic acid
derivatives 2141
triazole derivatives 2960
- Sporotrichum sulfurescens**,
5,7-dichloro-2-methyl-quinolinol
glucosidation 78
8-hydroxy-6 α -11 α -dimethyl-3-alkyl-/ac-
yl-1,2,3,4,5,6-hexahydro-
2,6-methano-3-tenazocins-6-methano-3-benzazo-
cin transformation 2535
- Sporotrichum thermophile**,
amyloglucosidase 5919
cassava, protein, food 2564
enzymes 9350 (
- Sporulation**,
Bacillus brevis, gramicidin 5736
Bacillus cereus, beta-amylase 7359
Colletotrichum capsici 1001
Colletotrichum falcatum 1001
Helminthosporium spiciferum, wheat 1042
Saccharomyces cerevisiae, sulphanilamide
8074
- Sporulation medium**,
Neovossia indica 3200
Sphaceloma curcumae 3203
Verticillium albo-atrum 1839
- Sporulation pigment**,
Streptomyces venezuelae, medium 7681
- Spot**,
Xanthomonas vesicatoria, tomato 8740
Xanthomonas vesicatoria, tomato, plant
protection 5392
- Spot blotch**,
Bipolaris sorokiniana, wheat 4350
Helminthosporium sativum, wheat 9808
- Spotted wilt**,
tomato spotted wilt virus, tomato, plant
protection 5392
- Spraing**,
tobacco rattle virus, potato, plant
protection 7928
- Spray-drying**,
milk, bacteria 7736 7737
- Spray irrigation**,
dairy effluent disposal 3873
sewage sludge/effluent, vegetable, viruses
5784
- Sprinkler irrigation system**,
fungicide, *Alternaria solani*, potato 7970
- Spruce**,
black, *Polyporus tomentosus* 1125
black, *Sirococcus strobilinus* 10007
black, soil, urea, microflora respiration
2830
Cytospora kunzei 10006
degradation, *Fomitopsis pinicola* 5467
engelmann, decay fungi 5446
Fomes annosus 8852
Fomitopsis annosa,
nitrogen/potassium/phosphorus fertilizer
2846
fungal degradation, ultraviolet/fluorescence
microscopy 5466
Herpotrichia parasitica 3605
northern, soil bacteria 5441
Norway, *Armillaria mellea* 8853
Norway, *Ascomyces sarcoides* 8004
Norway, bark, fungal degradation 4552
Norway, bark, microbial degradation 2829
Norway, *Botrytis cinerea* 8853
Norway, *Cytospora kunzei* 8853 10006
Norway, *Erwinia cancerogena* 8853

Subject index

Spruce(Contd),

- Norway, *Fomes annosus* 3604 3614 8004
- Norway, *Fomes annosus* + microflora 7237
- Norway, *Fomitopsis pinicola* 8853
- Norway, *Heterobasidion annosus* 8853
- Norway, *Mollisia* 8004
- Norway, *Mucorales* 8004
- Norway, *Nectria fuckeliana* 8004
- Norway, *Phomopsis picea* 8853
- Norway, *Pseudomonas syringae* 8853
- Norway, *Rhizina inflata* 8853
- Norway, root constituents, *Fomes annosus* enzymes 2845
- Norway, *Scytalidium* 8004
- Norway, *Stereum sanguinolentum* 8853
- Norway, *Trichoderma* 8004
- Norway, wood preservative 8013
- Norway, wood, *Serpula lacrimans* 7243
- particle board, decay testing, *Gloeophyllum trabeum* 10028
- Sakhalin, soil, *Tricholoma matsutake* 5443
- Sitka, *Fomes annosus* 3604
- Sitka, *Geniculodendron pyriforme* 7238
- Sitka, wood, *Serpula lacrimans* 7243
- white, *Polyporus tomentosus* 1125
- wood, *Serpula lacrimans* 7243

Spur blight,

- Didymella applanata*, raspberry 4291
- Didymella applanata*, raspberry, ferbam 4507

SQ 67,590,

- antibacterial agent 5662

Squalene,

- oxidation, *Arthrobacter* 6984

Squash,

- Alternaria cucumerina*, fungicide 382
- Ceratobasidium* 4416
- Erwinia carotovora* + *Phytophthora cryptogea*, pectin methyl-esterase + pectin transeliminase 352
- fungal diseases, plant protection 7966
- Fusarium oxysporum* 4416
- Fusarium solani* 4416
- Phytophthora cryptogea*, biological control, *Penicillium patulum* 372
- Pythium aphanidermatum* 4416
- Pythium irregulare* 4416
- Rhizoctonia solani* 4416
- Sphaerotheca fuliginea* 1056
- Sphaerotheca fuliginea*, fungicide 4491
- watermelon virus complex, plant protection 7966

Squash mosaic virus,

- melon 2746

St. Augustine decline,

- Panicum mosaic virus, millet, resistance 6333

Stabilisation lagoon,

- waste treatment 7475

Stabilisation pond,

- dairy waste treatment 679
- wastewater treatment 3868 7474

Stabiliser,

- soured milk product 963

Stable,

- cattle, air, bacteria 1519
- sheep, air, bacteria 8207

Stachybotrys,

- carbon substrate degradation 9521
- mycotoxins 2619

Stachybotrys alternans,

- mycotoxins 2619

Stachybotrys atra,

- fungicide 2053
- guanidine derivatives 8041
- satratoxin H, structure 7073
- soil, chlorpropham degradation 4601
- soil, 2,4-dichlorophenoxyacetic acid degradation 4601
- sugar maple 8856
- sunhemp 2759

Stachybotrys chartarum,

- cellulase 7613
- mine rubberized ventilation tube 4180
- paper degradation 2551

Stagonospora boltshauseri,

- ocean 2671

Stain,

- acid-fast, *Mycobacterium* 4956
- flagella 1553
- fluorescent Hoechst 33258, *Mycoplasma*, cell culture 6800
- Gram, blood culture 4930
- Gram, quality control 7361
- Grocott, *Aspergillus fumigatus*, tissue section 2391
- Grocott, *Elastomyces dermatitidis*, tissue section 2391
- Grocott, *Coccidioides immitis*, tissue section 2391
- Grocott, *Histoplasma capsulatum*, tissue section 2391
- oriseillin BB + crystal violet, fungi 4979

Stained urine smear,

- microscopy, urine culture 3964

Staining,

- conductive, *Alternaria kikuchiana*, scanning electron microscopy 761
- conductive, *Erysiphe graminis hordei*, scanning electron microscopy 761
- fluorescein diacetate, fungi 5477
- fluorescein diacetate, soil fungi 5477
- fluorescence, microorganisms 3158
- fluorescence, soil microorganisms 5468
- fluorescent, yeast, beer 8446
- iodine, plant leaves, mildew 8594
- machine/manual, acid-fast bacteria, fluorescence microscopy 4955
- Mycobacterium lepraemurium* 9312
- periodic acid-carbol-pararosanilin, *Mycobacterium* 10570
- periodic acid-methenamine silver, *Mycobacterium* 6778
- periodic acid-methenamine silver, *Mycobacterium leprae* 6778
- periodic acid-methenamine silver, *Mycobacterium tuberculosis* 6778

Staining device,

- slide, space flight 4925

Stalk end rot,

- Aspergillus niger*, grapevine 1931

Stalk rot,

- Cephalosporium acremonium*, corn 6214
- Colletotrichum graminicola*, corn 5324 6214
- Colletotrichum graminicola*, corn 5323
- Diplodia maydis*, corn 4330 5323 6214
- Diplodia maydis*, maize 1019
- Erwinia carotovora*, corn 8633 8634
- Erwinia carotovora*, corn, bactericide 8827
- fungal communities, corn 8635
- Fusarium*, corn 8638
- Fusarium moniliforme*, corn 8638
- Fusarium moniliforme*, maize 4332
- Fusarium roseum*, corn 8638
- Gibberella zeae*, corn 6214
- Helminthosporium* 6214
- Macrophomina phaseolina*, corn 6214
- Nigrospora oryzae*, corn 6214
- Phaeocytospora oryzae*, corn 6214
- Pythium aphanidermatum*, corn 7883

Stam,

- river water, microbial degradation 6023

Standard,

- microbiological, refrigerated/frozen food 4186

Standardization,

- antibiotic sensitivity test 2989

Staphylococcus,

- Staphylococcus* 5911

Staphylococcus,

- Actinomyces recifensis* lytic enzyme 2480

Subject index

Staphylococcus (Contd),

alpha-ethyl-alpha-aminopropylpenicillin 1364
amikacin/gentamicin/kanamycin/sisomicin/tobramycin 7384
aminoglycoside 4-adenylyltransferase,
aminoglycoside antibiotics assay 2183
antibacterial agent/antibiotics 1304
antibiotic sensitivity testing, Autobac 1 9036
antibiotic TM-481 626
antibiotics 1306 2995 3001 4721 7368 8119 10241
antibiotics resistance 4636 4637 8119
antiseptic 3137
L-asparaginase 8413
bacteriocins 2439
bile acids 7316
biologically-active products, agar plate tests 2417
carbonamidoquinoxaline-di-N-oxide derivatives 1226
catfish 187
cefuroxime/cephalothin 10277
cephalosporin derivatives 1340 2208 2210
cephalosporins 2195 9060
cephalothin 568
chicken 740 3398
chlorhexidine 10152
coagulase test 10234
cottage cheese 3394
dry sausage 182
egg shell surface, hot water treatment 9672
enterotoxin 9739
enterotoxin A 1825
enterotoxin A, food 1824 2649
enterotoxin A, radioiodine labelling 4279
enterotoxin B, food, radioimmunoassay 6156
enterotoxin B, microslide 1827
enterotoxin B, structure 4280
enterotoxin, food 2647
enterotoxin, gastric juice, radioimmunoassay 4278
enterotoxin, goat meat 7097
enterotoxin, milk/milk industry 2648
erythromycin resistance 4641
esculin hydrolysis 1562
flucloxacillin 3031
food 2557 6031
food poisoning 1713
frozen fried chicken 1746
furagin 1309
garamycin 1419
garlic 10143
gentamicin 5684
gentamicin/sisomicin/tobramycin 6562 6563
delta-haemolysin 819
housed swine unit air 1525
Iranian sausage 185
Kefalotyri cheese 9570
lamb 178
mastitis, antibiotics 2167
mastitis, milk 1724
methicillin resistance 8955
Micrococcus, nitrofurantoin-containing selective medium 3995
milk 140
milk, pasteurisation 4236
milk, proteolysis/lipolysis 142
minced beef 7769
minocycline 2236
nitrofurantoin 1309
nitrothiazole derivatives 1269
ointment 5615
oleomorphocycline 1309
operating theatre, rifampicin 1512
oxacillin 1309
packaged minced meat 2583
pasteurised milk, nitrate reduction test 137
PathoTec system 7540
penicillin 1309

Staphylococcus (Contd),

penicillin derivatives 1357 5677 7409
penicillin resistance 4641
penicillins 1347 3752
penicillins resistance, penicillinase, alkylsulphates/alkylarylsulphonates 8953
phenoxycetamido-nitrothiazole derivatives 2973
phospholipase C 40
pigeon farm 3925
pleuromutilin derivatives 10400
porridge, food poisoning 1757
protease, Staphylococcus aureus alpha-toxin degradation 2651
protein A-containing, slide co-agglutination, Streptococcus 1578
pyrimidine derivatives 502
rifampicin 9100
rifampicin resistance 9100
ristomycin 1309
rosamicin monoesters 5760
salafur 1309
sea water 4888
spices 4223
staphylococci 5911
streptamine derivatives 1441
sulphamethoxazole-trimethoprim 7319
sulphamethoxypyrazine 10150
sulphamethoxypyrazine-trimethoprim 10150
swimming pool water 3699
tobramycin 6661
Tribrissen (sulphadiazine + Trimethoprim) 2939
trimethoprim 10150
Ulloa cheese 9572
usnic acid 1228
Staphylococcus albus,
antibiotic AV290 alkylated derivatives 1394
antibiotic KM-214 2243
antibiotic TA 6621
asukamycin 5719
bacteriostat, diaper 5817
gentamicin 5684
human milk 9542
iodopolymers 1258 1259
magnesidin 3810
plant essential oil 5548
plumbagin 2109
Staphylococcus aureus,
4930
1-[4-(alkoxyphenoxy)-butyl]-1-ethyl-piperidin-ium bromide 2977
3,5-diaryl-4-(substituted sulphonamidobenzeneazo) pyrazoles 5558
3-chloro-2-oxazolidinones 7322
3-chloro-tetrahydro-1,3-oxazines/oxazolidines 1267
3-deoxybutirosin A 2253
3-deoxydehydrostreptomycin 6594
3-methyl-5-aryl-4-(substituted sulphonamidobenzeneazo) isoxazoles 5554
5-amino-3,5-dideoxybutirosin A 5629
5-hydroxy-1-[[[5-nitro-2-furanyl)methylene]amino]-2,4-imidazolidinedione 7321
6-aminopenicillanic acid derivatives 3778
6beta-acylamino-6-alpha-alkoxy penicillins 2173
7-(2-aminomethylphenylacetamido)-3-(1-carboxymethyltetrazol-5-ylthiomethyl)-3-cephem-4-carboxylic acid 7398
7beta-acylamino-7-alpha-alkoxy cephalosporins 2173
+ Bordetella pertussis, culture medium 769
N-acetylglucosaminyl ribitol teichoic acid, degradation, Bacillus circulans enzyme 864
Achromobacter lunatus immobilised bacteriolytic enzyme 6851
actinomycin antibiotic 70591 1389
actinorhodin 3062

Subject index

Staphylococcus aureus(Contd),

agar droplet method 3165
 altorixin 5714
 alcoholic chlorhexidine 8252
 alcoholic chloroxylenol 8252
 aliphatic alcohol 5552
 aliphatic diol diesters 3720
 L-5-alkylthiomethylhydantoin-S-oxide 5556
 alkyltin cyclopropyl derivatives 1260
 alkyltrimethylammonium bromides 10164
 alpha-halogenated fatty acid 1255
 alpha-sulphocephalosporins 5659
 amikacin 5632
 aminocarbotrithioates 1263 1264
 omega-aminoacyl-4-aminobenzoic acid derivatives 10153
 aminobenzoic acid derivatives 10153
 4-aminocyclohexanecarboxylic acid derivatives 10153
 aminoglycoside 3-phosphotransferase IV 6860
 aminoglycoside antibiotic 1207
 aminoglycoside antibiotic resistance, aminoglycoside antibiotic nucleotidyltransferase 490
 aminoglycoside antibiotics 1319 3755
 aminoglycoside phosphotransferase, amikacin phosphorylation 6859
 aminotriethoxybutirosin A 2254
 amoxycillin 3024
 ampicillin 10269
 analgesic agents 6495
 anhydroerythromycin B 3046
 antibacterial agent 469 4693 5752
 antibacterial agent/antibiotic 1214
 antibacterial agent, non-woven fibres 8040
 antibiotic 19 402 R.P. 3798
 antibiotic 41,012 10334
 antibiotic 1998 3057
 antibiotic 333-25 1388
 antibiotic 339-29 5704
 antibiotic 342-14-T 4787
 antibiotic 792 9114
 antibiotic A16884 6619
 antibiotic A23187 2239
 antibiotic A30641 2241
 antibiotic A-26771 139C
 antibiotic A-4696 624
 antibiotic AB-74 1391
 antibiotic AV290 alkylated derivatives 1394
 antibiotic B371 5706
 antibiotic B-43 5705
 antibiotic DE-3936/lonomycin 2242
 antibiotic EM-49 tetramidino derivatives 5707
 antibiotic G-52 1397 1398
 antibiotic G-413 1400
 antibiotic KM-214 2243
 antibiotic No. K-73 3803
 antibiotic NRC-501 3060
 antibiotic P-3355 2244
 antibiotic sensitivity testing 1301 9034 9035 10233
 antibiotic TA 6621
 antibiotic U-43120 1402
 antibiotic U-48266 4789
 antibiotic XK-90 5710
 antibiotics 3000 3002 8119
 antibiotics, anaerobiosis 9044
 antibiotics, marsh bacteria 3056
 antibiotics resistance 5526 6475 7297 7302 8119
 antibiotics + vitamins/nicotinamide/p-aminobenzoic acid 2991
 antibody, counterimmunoelectrophoresis 1570
 antihistamine 5549
 antitumour antibiotic resistance 9120
 aplasmomycin 5717
 arylsulphonylacetic acid hydrazide derivatives 8985

Staphylococcus aureus(Contd),

asukamycin 5719
 azetidinone derivatives 3687
 azlocillin 8155
 bacteriostat/bactericide 1256
 bacteriostat, diaper 5817
 barbituric acid derivatives 2140
 beef 6077
 benzalkonium chloride 6539
 benzanilide derivatives 1217
 benzazepine derivatives 3686
 benzene derivatives 2131
 benzisothiazolin-3-one derivatives 534
 benzisothiazolinone + quaternary ammonium compound 4687
 benzo-1,2,4-triazines 1225
 benzodiazepine derivatives 5560
 benzotriazine-1,4-dioxide derivatives 2091 2118
 N-benzylidenediphenylamine-2-carboxylic acid hydrazide derivatives 10165
 beta-aminoketones 2108
 beta-naphthols 5552
 biologically-active products, agar plate tests 2417
 blood culture 768
 blood culture medium, microcalorimetry 10523
 brevistin 2251
 3-bromoacetoxy tetrahydrofuran 533
 5-(bromocetyl)-uracil 466C
 butylated hydroxy anisole, food preservative 958
 caffeine 10160
 cairomycin B 6630
 canned pork, food poisoning 2582
 epsilon-caprolactam + alkanediamine derivatives 2149
 epsilon-caprolactam + N-alkylalkylene diamine reaction product 3126
 epsilon-caprolactam + N-alkylpropylene diamine reaction products 8102
 carbamoyloxy-benzamide derivatives 4691
 carbomycin B 4817
 catalase selective medium 3947
 cefaclor 10272
 cefadroxil 5651
 cefamandole 1326
 cefazafur 7401
 cefazolin 1326
 cefoxitin 1326 3773
 ceftazole 5654
 cell envelope, ultracryotomy, electron microscopy 10537
 cephalixin/cephradine/cefaclor 6578
 cephaloridine 2169
 cephaloridine assay, ATP-firefly luminescence 10225
 cephalosporin analogue 10278
 cephalosporin antibiotic SK & F 59962 1326
 cephalosporin derivative 1328 1329
 cephalosporin derivative FR10024 5661
 cephalosporin derivatives 570 571 573 1313 1316 1335 1337 1338 1339 1340 1341 1342 1343 1345 2198 2209 2211 2212 3006 3017 3018 3019 3768 3769 5665 6569 7394 7395 8140 8142 8143 9069 9070
 cephalosporin R-sulphoxides 4735 5637
 cephalosporin SQ 67,590 5662
 cephalosporins 1324 2174 2178 2201 2203 3016 3766 4754 9061 9063 10269
 cephalosporins resistance, beta-lactamase 5535
 cephalothin 2169 2187 5657 7376
 cephalothin/cefamandole/cefoxitin 1325
 cepham derivatives 2200
 cephamycin derivatives 6575
 cerulenin, fatty acid 6631
 chalcone analogues 8071
 cheese 9556
 cheese, selective medium 7005

Subject index

Staphylococcus aureus(Contd),

chelocardin anilino derivatives 3064 5726
 chloramphenicol + hexamethylenetetramine 2226
 chloramphenicol + penicillin G 8127
 chlorbutol 6539
 chlorhexidine gluconate 6539
 chlorhexidine/iodophor/quaternary ammonium compound/hypochlorite teat dip 3922
 5-chloro-2-(2,4-dichlorophenoxy)phenol, toilet bowl 4891
 5-chloro-2-(2,4-dichlorophenoxy)phenol, toilet bowl cleanser 6730
 N-chlorocarboxylic acid derivatives 529
 chlorocarcin A 2264
 chlorodicyano benzene organosulphur derivatives 5595
 chlortetracycline resistance 5541 8964
 cholesteryl esterase, alpha-toxin 5936 5937
 cinnamanilide 7320
 cinnamyl phenols 532
 clindamycin 5632
 cloxacillin 2169
 Coelastrium proboscideum antibacterial agent 6494
 colistin derivatives 9102
 comminuted turkey meat 6073
 contact lens sterilising solution 1284
 cooked hamburger 9575
 copper, intensive care unit 2347
 culture filtrate, leaf litter soil fungi 10051
 culture medium, low ultraviolet absorptivity 4968
 curd 4195
 cyclacillin/dicloxacillin 3029
 cyclic dimedone derivatives 1266
 cycloalkyl-4-oxoquinoline-3-carboxylic acid derivatives 2141
 dairy product 1726
 dairy product, paper strip method 8473
 damavaricin 634
 deoxyribonuclease, food, assay 7725
 deoxyribonuclease test 4947
 2-deoxystreptamine-aminoglycoside derivatives 6560
 D-3,6-diaminohexanoic acid
 2-(carboxymethyl)-2-methylhydrazine 2151
 dibromoisocyanuric acid, hand disinfection 1518
 dihalopyrrolyl di-/trihalomethyl ketones 2943
 dinitro-bithiophene derivatives 8098
 bis(diphenylaminomethane) derivatives 1265
 disinfectant 6726
 disinfectant resistance 1192
 disinfectant testing 726
 disinfectants 8245
 doxycycline 2105
 doxytetracycline 7313
 econazole 2974
 enterocin 1415
 enterotoxin A, salami 9741
 enterotoxin 4274
 enterotoxin A 1826 9740
 enterotoxin A, microslide gel double diffusion test 3452
 enterotoxin B 2650 7093 7094 7095
 enterotoxin B, cerulenin 7859
 enterotoxin B, chloramine-T iodination 7096
 enterotoxin B, food 1828
 enterotoxin B, heat treatment 6157
 enterotoxin B, microslide gel double diffusion test 3452
 enterotoxin C, cerulenin 7859
 enterotoxin D, sausage, food poisoning 245
 enterotoxin, food 1822 1823
 enterotoxin, microslide gel double diffusion 995
 enterotoxin, milk 5209

Staphylococcus aureus(Contd),

epidermolytic toxin, mouse assay/radial immunodiffusion/radioimmunoassay 4281
 equisetin 1416
 erythromycin 2223 5632
 cyclic-erythronycin A 6,9-hemiacetal carbonate L-aspartate 5688
 erythromycin A resistance 7310 7311
 ethanol 3138
 everninomicin 5632
 eye cosmetic 4910
 eye drop, preservative 5606
 farinaceous products 10500
 fermented meat product 6082
 ficellomycin 5733
 flocculation, bentonite 10535
 food 3373 4185 6027 6965
 food, Baird-Parker selective medium 7724
 food, isolation medium 1714
 food poisoning 125
 food, selective medium 2560
 food, thermonuclease test 2561
 food, thermostable nuclease test 5202
 formaldehyde 5523
 fortimicin A 8181
 fosfomycin 2259
 fresh/frozen seafood 9585
 frozen beef patties 9575
 frozen fruit/vegetable 3406
 frozen pasta product 2590
 frozen raw breaded shrimp 9591
 furancarabamic acid esters 2143
 furo[3,4-c]cephams 4759
 furoazepinone nitro-derivatives 4665
 fusidic acid resistance 2927
 garamine derivative 8182
 gardimycin 1419
 gentamicin 2187 10257
 gentamicin 1-N acyl derivatives 5643
 gentamicin aminocyclitol analogues 6599
 gentamicin B 5632
 gentamicin C1 5632
 gentamicin C1 derivatives 2225
 gentamicin C1a derivatives 5685
 gentamicin C10C1a 5632
 gentamicin C2 derivatives 617
 gentamicin + prednisolone 1371
 gentamicin resistance 489 3677 5538
 gentamicin resistance, aminoglycoside acetyltransferase/aminoglycoside phosphotransferase 10125
 gentamicin/sisomicin/tobramycin 6563
 gentamicin/tobramycin 4740
 gentamicin/tobramycin/sisomicin/netilmicin 2186
 gentamicins 9090
 germicide 6742
 gramicidin A/gramicidin A analogues 4804
 ground beef 175 7015 9575
 delta-haemolysin 2444
 heat-stressed, dairy product, paper strip method + enrichment medium 5211
 heavy metals resistance 7213
 hexachlorophene + povidone-iodine + ethanol, bronchofiberscope disinfection 5807
 hospital food 126
 hydrazide derivatives 5557
 hydrazino-pyridine derivatives 2139
 p-hydroxybenzoic acid ester silicon derivatives 5551
 9-hydroxyellipticine 1229
 intermediate moisture food, antibacterial agent 1782
 iodine disinfectant 8253
 iodopolymers 1258 1259
 ionophore A23187 assay 8062
 isothiazolopyridinone derivatives 2975
 isoxazolium derivatives 8975
 josamycin 640
 josamycin/rosamicin/erythromycin 2190

Subject index

Staphylococcus aureus(Contd),

juvenimicins 7433
 kanamycin B derivatives 6596
 kanamycin derivatives 3785
 kanendomycin 7425
 kasugamycin guanidino derivatives 3808
 Kefalotyri cheese 9570
 kojic acid analogues 1223
 L-form, antibiotics 3750
 L-form, blood culture 3439
 L-form, enterotoxins 3450
 beta-lactam antibiotics 6553
 beta-lactamase, cephalosporins 1323
 beta-lactamase, cephexazole + penicillin G 10252
 beta-lactamase, clavulanic acid 8178
 beta-lactamase, Streptomyces beta-lactamase inhibitor 3347
 laterosporamine 2261
 leucomycin A1 4817
 leucomycin A3 4817
 levorin/decamethoxin, thermogenesis 2971
 lincomycin 2169
 lipase, Cheddar cheese 157
 lipiarmycin 8186
 lividomycin A derivatives 6641
 lividomycin B derivatives 1422 6641
 low-temperature lysis 9286
 luncheon meat 9578
 lysis-filtration blood culture 10524
 macrolide antibiotics resistance 7310 7311
 macromomycin 9141
 magnesidin 3810
 magnesidin-related tetramic acid derivatives 8976
 meat 8461
 mecillinam/6-aminopenicillanic acid/ampicillin 6583
 medermycin 4812
 mercapto-quinoxaline derivatives 504
 mercurated sulphonamides 1262
 methicillin 1367 2169 3032 5632 7376
 methicillin resistance 488
 methicillin resistance, antibiotic sensitivity testing 10124
 methicillin resistance, beta-lactamase 5535
 mezlocillin 5672
 miconazole 2974
 milk 5209
 milk heat treatment 9666
 milk, spray-drying 7736 7737
 minocycline 2105
 morpholino-N-acetohydrazide hydrazones 2152
 5-O-mycaminosyl narbonolide 7438
 nafcillin 5632 10302
 nafcillin + netilmicin 10302
 nafcillin/oxacillin 2223
 rapthyrindine-3-carboxylic acid derivatives 8983
 naphthyrindine derivatives 2945
 nebramycin 2265
 negamycin analogues 642
 neomycin, Coulter Counter 6595
 netilmicin 1429 3814 9145 10302
 netilmicin/gentamicin 6644
 netilmicin/gentamicin/amikacin 4741
 netilmicin/sisomicin 3815
 niddamycin 4817
 beta-nitroethanol derivatives 8984
 nitrofuranylpropenone derivatives 8974
 nitrofuranyl derivatives 1220
 nitroimidazolyl-acetylpropenoic acid derivatives 2136
 4-nitrophenyl mercapto acetic acid hydrazide 7327
 nitrophenyl-sulfanilamidopyrazole derivatives 8070
 nocardicin B 7440
 operating theatre, hygiene 3141

Staphylococcus aureus(Contd),

organic soil neutralization test, disinfectant 5801
 oxacillin 2169 2187 5632 1:302
 oxacillin + netilmicin 10302
 oxacillin + sisomicin 10312
 oxamicetin 3073
 oxazolidine derivatives 5553
 oxime esters 2148
 7-oxo-1,3-diazabicyclo[3.2.0.]heptane-2-carboxylic acid 8121
 8-oxo-4-thia-1-azabicyclo[4.2.0.]oct-2-ene-2-carboxylic acid 8122
 oxolinic acid 5563
 Panaeolus antibiotics 6545
 paper, sterile packaging 5613
 paromomycin derivatives 3784
 pasta 2591
 penicillanic acid derivatives 506 3040 4765
 penicillin 2169
 penicillin acylase, assay, phenylacetic acid 5963
 penicillin/cephalothin + colitetracycline 3754
 penicillin derivatives 1313 1316 1352 1353 3006 6589 6590 7405 7406 7408
 penicillin/erythromycin/arzenate/cadmium/mercury resistance 5533
 penicillin, Escherichia coli 1350
 penicillin G 7376
 penicillin R-sulphoxides 4736 5637
 penicillin resistance 7305
 penicillinase, agar-overlay test 38
 penicillinase, assay 1203
 penicillinase, cephalosporins 7372
 penicillinase, penicillin resistance 7304
 penicillinase, penicillins 7372
 penicillins 2174 2178 3777
 penicillins resistance 4631
 penicillins resistance, beta-lactamase 5535
 phage typing 9285
 pharmaceutical cream, peracetic acid sterilisation 2979
 2-phenyl-1,2,3-triazole-4-carboxylic acid hydrazide 7327
 2-phenyl-1,2,3-triazole-4-carboxylic acid-sulphonyl hydrazide 7327
 phenyl-indole derivatives 6530
 phosphomomycin + streptomycin/penicillin G/ampicillin 6558
 piperazinoethyl-dihydroindolo-benzazepine derivatives 2948
 piperazinyl-oxopyrido-pyrimidine derivatives 2946
 piperidino-N-acetohydrazide hydrazones 2152
 plant essential oil 5548
 plant extracts 10141
 plasmodocagulase 3310
 pleuromutilin derivatives 5755 5756
 polyethoxyalkyl phenols 10154
 polyethoxyalkyl phenols, optical density 10155
 polymyxin B derivatives 9102
 polypeptide, + immunoglobulin 3949
 polytropic diagnostic tuber 9259
 poultry carcass 2578
 poultry, food poisoning 6071
 preservatives 2157
 protease, Penicillium janthinellum penicillopepsin 2492
 protein A 7606
 protein A, agglutination test 3994
 protein A, rubella serology 5035
 protein A, solid-phase radioassay 8288
 pyrazole derivatives 499 1222 5557 5559
 pyridazine-2-oxide derivatives 3932
 pyrrolidine derivatives 9006
 quaternary ammonium compound 2949 3890 3905
 quaternary ammonium compounds 1535 2145 2146 2319

Subject index

Staphylococcus aureus(Contd),

quaternary ammonium phenolate 2907
 quinoline-3-carboxylic acid derivatives 3688
 quinoline derivatives 2140
 quinolizine-2-carboxylic acid derivatives 4694
 quinolizine derivatives 8100
 quinoxaline-1,4-dioxide derivatives 3689
 quinoxaline-2-carboxamide-1,4-dioxide derivatives 8982
 R-factor, antibiotics resistance 4629
 resistance, aminoglycoside antibiotic 1207
 resistance, cefoxitin 1202
 resistance, cephalothin 1202 5534
 resistance, doxycycline 2105
 resistance, doxytetracycline 7313
 resistance, formaldehyde 5523
 resistance, gentamicin/tobramycin/amikacin 4644
 resistance, methicillin 2169
 resistance, minocycline 2105
 resistance, penicillins 5534
 resistance, tetracycline 2105 7313
 ribofuranosyl-1,2,3-triazole derivatives 3727
 rifampicin, electron microscopy 9099
 rosamicin 5632
 rosemary spice extractive, meat 6126
 S-alkylthiuronium halides 6527
 s-triazinyl aryl/alkyl sulphones 1215
 N-salicylsulphonyl amino acid derivatives 3683
 selective medium 3162
 silicoorganic amines 530
 silver nitrate 2937
 sisomicin 5632 6652 10302
 sisomicin 1-N acyl derivatives 5643
 sisomicin/gentamicin 3757 7387
 sisomicin + nafcillin 10302
 sisomicin, protein binding 7452
 skin 4904
 slimicide, industrial water system 3124
 small-colony-forming variants, culture 4969
 soft contact lens preservative 4700
 6-spirocycloalkylamino 5-nitropyrimidine derivatives 2947
 sporamycin 6940 8420
 staphylokinase 8396
 streptomycin A 5763
 Streptomyces orientalis 3082
 streptomycin 10257
 streptovaricin isomers 1443
 stressed, selective medium, catalase 8287
 substituted sulphonylacetamido cephalosporins 2204 2205 2206
 sugars/sugar alcohols 5593
 sulphacycline 528
 sulphamethoxazole-trimethoprim 2941 5550
 sulphamoylquinoline-dione derivatives 5562
 sulphanilamide-metal complexes 10148
 sulphonamide derivatives 6528
 sulphonamide pyrazole derivatives 6500
 sulphonylamino acid derivatives 6499
 sulphonylhydrazide derivatives 5557
 terizidone 5555
 test 1559
 tetracycline 621 2105 7313
 tetracycline derivatives 622
 tetracycline, radiation sterilisation 6610
 tetracyclines resistance 8963
 tetrahydro-cyclopropa(b)naphthalenes 4692
 tetrahydrocarbazole derivatives 10162
 tetramethylene bis(methanethiosulphonate) 4690
 Thalictrum rugosum alkaloid 2144
 theophylline 10160
 thermoradiation 1277
 thiazinium derivatives 3725
 thienamycin 651
 thienoazepinone nitro-derivatives 4665

Staphylococcus aureus(Contd),

thienopyridine-carboxylic acid derivatives 503 2944
 thiocarbamoyl sulphenamide derivatives, detergent 9228
 thiocillin I/thiocillin II/thiocillin III 2270
 thiocyanoxanthate derivatives 2972
 thiolacetic acid derivatives 3723
 thiomersal 6539
 4-thiouracil 6653
 thiourea derivatives 3933
 tizezonium 9008
 tircarcillin/antibiotic BL-P1654/carbenicillin 605
 tobramycin 5632 6658 6659 7425
 alpha-toxin 3452 6158 7092
 alpha-toxin, degradation, Staphylococcus protease 2651
 alpha-toxin, protein 9738
 transport system 5837
 triazenoimidazoles 1271
 triazolo-pyridazine derivatives 2117
 trifluoromethyl phenyl-3-(3',5'-dicyanophenyl)urea 2140
 triorganotin compounds/triorganolead compounds 2129
 tubaic acid 3682
 turbidimetric assay, chlortetracycline, animal feed 950
 ureidoacetamido-penicillin derivatives 8161
 beta-ursolic acid 6532
 vancomycin 2169
 vanilla slices 8514
 Vega disinfectant 9232
 verdamycin 1 562
 verdamycin 1-N acyl derivatives 5643
 veterinary topical products 2970
 virginiamycin M factor acetylation 9161
 vitamin B3 10187
 white cheese, culture medium 1743
 white cheese, selective medium 9573
 xylenol derivative, antiseptic 10488
 xylostasin 654
Staphylococcus aureus vaccine, 1449
Staphylococcus dores, swimming pool 3143
Staphylococcus emoliticus, bacteriostat, diaper 5817
Staphylococcus epidermidis, 3-chloro-2-oxazolidinones 7322
 3-chloro-tetrahydro-1,3-oxazines/oxazolidines 1267
 aminoglycoside 3-phosphotransferase IV 6860
 aminoglycoside 4-adenylyltransferase, aminoglycoside antibiotics assay 2183
 aminoglycoside antibiotics resistance, tobramycin adenylyltransferase 6491
 ampicillin 10269
 antibiotic EM-49 tetramidino derivatives 5707
 antibiotic No. K-73 3803
 antibiotics 8119
 antibiotics, anaerobiosis 9044
 antibiotics resistance 8119
 benzo-1,2,4-triazines 1225
 benzotriazine-1,4-dioxide derivatives 2091 2118
 biologically-active products, agar plate tests 2417
 blood culture, antibiotic sensitivity testing 551
 cairomycin B 6630
 ceftazole 5654
 cephalixin/cephradine/cefactor 6578
 cephalosporins 10269
 cosmetic 7354
 econazole 2974
 elastase 5061

Subject index

Staphylococcus epidermidis(Contd),

- eye cosmetic 4910
- frozen erythrocytes 1293
- hospital, serotyping 672
- imidazole derivatives 2137
- imidazolyl-alkyl-hydrogen monothiosulphate derivatives 1221
- intravenous infusion bottle plug 5806
- josamycin 640
- josamycin/rosamicin/erythromycin 2190
- medermycin 4812
- miconazole 2974
- S-O-mycaminosyl narbonolide 7438
- netilmicin/sisomicin 3815
- oxolinic acid 5563
- phage typing 6789 10592
- polypeptide, + immunoglobulin 3949
- serum opacity factor 5141
- skin, soap/deodorant soap 5816
- sweetened condensed milk 6999
- tetracycline 2234
- tircarcillin/antibiotic BL-P1654/carbenicillin 605

Staphylococcus haemolyticus,

- triazenoimidazoles 1271

Staphylococcus hyicus,

- antibiotics 3002 9045
- antibiotics resistance 9045

Staphylococcus pneumoniae,

- antibiotic 333-25 1387

Staphylococcus pyogenes,

- antibiotic G-52 1397
- contact lens sterilising solution 1282
- masking/masked toxins 6151

Staphylococcus saprophyticus,

- animal waste treatment, methane + animal feed 6714
- antibiotics, anaerobiosis 9044

Staphylococcus villaluz,

- substituted sulphonylacetamido cephalosporins 2204 2205 2206

Staphylokinase,

- Staphylococcus, agar plate tests 2417
- Staphylococcus aureus 8396

Starch,

- Bacillus cyclodextrin-glycosyl-transferase, cyclodextrin 9445
- Clostridium, gamma-irradiation 7024
- degradation, Klebsiella pullulanase 9432
- degradation, soil fungi 9522
- degradation, Trichoderma viride, amylolytic enzymes 4181 4182
- hydrolysis, bacterial alpha-amylase, low D.E. malto-dextrin 6932 6933
- hydrolysis, bacterial alpha-amylase, low D.E. starch hydrolysate syrup 6931
- irradiated, Escherichia coli 10140
- irradiated extracts, Escherichia coli 5546
- malto-, Bacillus cereus
- beta-amylase/pullulanase 2453 2454
- rumen bacteria-attachment 8282

Starch casein salt medium,

- Streptomyces enumeration 6791

Starch hydrolysate syrup,

- low D.E., dextrin, bacterial alpha-amylase 6931
- low D.E., malto-dextrin, bacterial alpha-amylase 6932 6933

Starch paper method,

- Neisseria gonorrhoeae penicillinase 9425

Starter,

- bacteria, sausage, hygiene 1751
- cheese 152 154
- cheese, glycerophosphate-milk-agar medium 155
- cheese, Streptococcus cremoris, culture 153
- cheese, Streptococcus diacetylactis, culture 153
- cheese, Streptococcus lactis, culture 153
- lactic, Domiat cheese 1741

Starter(Contd),

- Lactobacillus bulgaricus, phage, medium 151
- Lactobacillus bulgaricus + Streptococcus thermophilus 150
- Lactobacillus helveticus, phage, medium 151
- Lactobacillus lactis, phage, medium 151
- Streptococcus thermophilus, phage, medium 151

Starter bacterium,

- milk bacterial fermentation activity testing 2571

Starter culture,

- bacterial, frankfurter 7017
- lactic, phage 4198

Statice,

- cucumber mosaic virus 330
- turnip mosaic virus 330

Stolon,

- Penicillium stoloniferum, antiviral agent 518

Steam,

- sterilisation 9011

Steam sterilisation,

- filter 5599

Stearic acid,

- Aspergillus flavus, aflatoxins 9701
- Bacteroides fragilis endotoxin 7848
- Epicoccum nigrum 1626
- Escherichia coli triglyceride 5888
- Streptococcus mutans, gas chromatography 5889

Steccherinum oreophilum,

- aspen 10010

Steffimycin,

- bacterial reduction 1383
- steffimycinone/7-deoxysteffermynone, antibacterial agent 8193

Steffimycin B,

- bacterial reduction 1383
- steffimycinone/7-deoxysteffermynone, antibacterial agent 8193

Steffimycinone,

- 7-deoxy-, antibacterial agent 8193
- antibacterial agent 8193

Steganosporium piriforme,

- stone fruit trees 9817

Stem basal canker,

- Rhizoctonia solani, cowpea, soil 8609

Stem blight,

- Colletotrichum dematium, soybean 4311
- Diaporthe, soybean 6196
- Phytophthora parasitica, Pilea imperialis, pyroxychlor 3518

Stem blotch,

- Cercospora, rabbiteye blueberry 9850

Stem canker,

- Ascochyta caulicola, sweet clover 4304
- Diaporthe, soybean 6196
- Phoma sorghina, Orange Pincushion 1935

Stem gall,

- Protomyces macrosporus, coriander, soil fertilizer 3574

Stem rot,

- Erwinia, sweet potato 8735
- fungi, bean 7870
- Fusarium culmorum, wheat, 2-aminopyrimidine derivatives 395
- Fusarium graminearum, corn 9789
- Fusarium moniliforme, corn 9789
- Fusarium robustum, Araucaria angustifolia 7998
- Helminthosporium sigmoideum, rice 7131
- Helminthosporium sigmoideum, wild rice 4344
- Helminthosporium sigmoideum, wile rice 7131
- Magnaporthe salvinii, rice 5331
- Nakataea sigmoideum, Zizania latifolia 295
- Phytophthora cryptogea, sunflower 333
- Phytophthora drechsleri, safflower 8726
- Phytophthora drechsleri, safflower, resistance 8726

Subject index

Stem rot(Contd),

Sclerotinia sclerotiorum, Brassica 8723
 Sclerotinia sclerotiorum, cabbage 8723
 Sclerotinia sclerotiorum, chilli 2733
 Sclerotinia sclerotiorum, rapeseed 8723
 Sclerotinia trifoliorum, alfalfa 8601
 Sclerotium oryzae, rice, dextranase 1835
 Sclerotium oryzae, rice, fungicide 284
 Sclerotium rolfsii, peanut, dinoseb 9957
 Sclerotium rolfsii, peanut, oxadiazon 9957
 Sclerotium, wild rice 4344
 squash, Ceratobasidium 4416
 squash, Fusarium oxysporum 4416
 squash, Fusarium solani 4416
 squash, Pythium aphanidermatum 4416
 squash, Pythium irregulare 4416
 squash, Rhizoctonia solani 4416

Stem rust,

Puccinia dispersa, rye 4315
 Puccinia graminis, air 4318
 Puccinia graminis avenae, oat 1876 3482 4339
 Puccinia graminis, barley 272
 Puccinia graminis, cereal 271
 Puccinia graminis hordei, barley 4319
 Puccinia graminis, rye 272
 Puccinia graminis secalis, rye 4319
 Puccinia graminis secalis, rye, resistance 358 1093
 Puccinia graminis tritici, wheat 272 292
 3489 4319 4354 5339 7894 8654 8655 9773 9809
 Puccinia graminis tritici, wheat, resistance 1985 2786 3551 7951 8655 8772 8773 9933
 Puccinia graminis tritici, wheat, zinc-maneb 8811
 Puccinia graminis, wheat 9747

Stem wilt,

Fusarium equiseti, giant witchweed 9866

Stemphylium,

barley 6204
 fungicide 2053
 tomato, resistance 9946

Stemphylium botryosum,

alfalfa 9751
 alfalfa, resistance 2779 2780
 common, Pseudopeziza medicaginis, alfalfa 6176
 lettuce post-harvest decay, fungicide 4438
 maackiain 4496 4497
 medicarpin 4496 4497
 tomato 7943

Stemphylium dendriticum,

guanidine derivatives 8041

Stemphylium lotii,

Copperspot disease, cyanide 2536

Stemphylium radicinum,

trifoline 396

Stemphylium sarcinaeforme,

maackiain 4496 4497
 medicarpin 4496 4497
 potato, rishitin/lyubimin 4495

Stemphylium solani,

tomato, plant protection 5392

Stemphylium vesicarium,

barley 6204

Stenothricum,

structure 5762

Stereocaulon paschale,

forest soil, nitrogen fixation 8915

Stereology,

9310

Stereum frustulosum,

frustulosin, structure 10368
 frustulosinol, structure 10368

Stereum hirsutum,

trees 9996
 wood, pseudosclerotial plate 8864 10024
 wood, scanning electron microscopy 6400

Stereum purpureum,

apricot, plant protection 9827

Stereum purpureum(Contd),

Rosaceae 5297
 xylanase 9438

Stereum reflexulum,

trees 9996

Stereum sanguinolentum,

conifers 5446
 Norway spruce 8853
 wood, biological control 6405

Stereum sulcatum,

conifers 5446

Sterigmatin,

Aspergillus versicolor, high-speed liquid chromatography 6146

Sterigmatocystin,

226 7808 9691

5-methoxy-, Aspergillus versicolor, high-speed liquid chromatography 6146
 animal feed 8554
 animal mycotoxins 3427

Aspergillus aurantio-brunneus 8574

Aspergillus flavus, Aspergillus glaucus, pecan nut 7835

Aspergillus multicolor 8574

Aspergillus quadrilineatus 8574

Aspergillus rugulosus 8574

Aspergillus stellatus 8574

Aspergillus ustus 8574

Aspergillus versicolor 988 7833

Aspergillus versicolor, high-speed liquid chromatography 6146

Aspergillus versicolor, pistachio nut 227

Aspergillus versicolor, stored rice 9690

Aspergillus versicolor, water activity 977

Bipolaris sorokiniana 988

carbon-13 nuclear magnetic resonance spectroscopy 7054

cereal, animal feed 4255

cereal, gas-liquid chromatography +

electron-capture detector 7074

cereal grains, thin-layer chromatography 7834

cereal, thin-layer chromatography 3430

dimethyl-, Aspergillus versicolor, high-speed liquid chromatography 6146

fluorescence 2634

food 7055

grain 7056

human cell culture, cytocide 5260

Hungarian salami 5261

Hungarian salami, preservation/packaging 1800

rumen microorganisms 4254

stored rice 238

tetrahydrofurobenzofuran derivatives 9699

Sterigmatocystis nigra,

1,2-dithiol-3-thione derivatives 8077

Sterilant,

partial, soil, Plasmodiophora brassicae, crucifer 5424

soil, Plasmodiophora brassicae, cabbage 6358

Sterilant immersion container,

medical instrument 3736

Sterile,

packaging 8107

Sterile beef tissue,

aseptic technique 2580

Sterile bottle closure,

8108

Sterile box,

air hygiene 1511

Sterile connection,

3737

Sterile dairy product,

6124

Sterile filling,

beverage packaging 2160

cosmetic packaging 2160

Subject index

Sterile filling(Contd),

food packaging 2160

Sterile food,

microbiological standards 8463

Sterile medicament,

container 2162

Sterile medium,

continuous culture, membrane filtration 3149

Sterile package,

3743
sterilised hypodermic needle 4710

Sterile packaging,

8106 9019 10220

food 9665

paper 5613

Sterile product,

packaged, small-volume, quality control 7362

Sterile surgical article,

package 1290

Sterile surgical package,

546 547

Sterile water,

9218

Sterilisable bag,

1296

Sterilisation,

794 7591 8103 9011 10200 10207

air 2155

air, hospital 3733

air, ultraviolet radiation 3734

ampoule 6535

autoclave, plastic bag 7352

bactericide/sporicide 5602

beverage 2604 3412

blood 1286

brewing 9512

canned food 1779 9657

canned food, lethality-Fourier number method

9658 9659 9660

chlorination, drinking water 2323

contact lens 10214

container-packaged product 6120

cystoscope, low-temperature

steam/formaldehyde autoclave 4695

dialyser 729 730

dimethyl dicarbonate, food 9663

drinking water, chlorine + halogen salt 7500

electric, coliform, sewage treatment 706

electrochemical, beer 2545

endo-tracheal catheter 5603

ethylene oxide 537 4697 9011 10210

ethylene oxide, apiary, *Bacillus larvae* 3738

ethylene oxide, apiary sterilisation,

American foulbrood disease 2980

ethylene oxide, *Bacillus subtilis* 538

ethylene oxide, honeycomb, *Bacillus larvae*

6547

ethylene oxide, indicator, *Bacillus subtilis*

4696

ethylene oxide, sterility indicator 10209

flame, canned apricot 2617

flame, canned fruit 1798

flame, canned tomato 1798

food 2604 3223 3419 6118 7792

food packaging 1778

formaldehyde, operating microscope 7350

gas 4697

glutaraldehyde 3907 3908

heat, canned food 5248

heat, coliform, sewage treatment 706

heat, food 210 8523

heat + gamma-irradiation, *Bacillus subtilis*

9012

high-temperature short-time, fruit product

4248

high-temperature short-time, vegetable

product 4248

hospital surfaces, cephalosporins 3767

hot air, pharmaceutical glassware 6534

Hunister sterilizer, food 8524

Sterilisation(Contd),

hydrogen peroxide, *Bacillus licheniformis*

10212

hydrogen peroxide, culture medium 8104

infrared, pharmaceutical glassware 6534

infusion therapy 3221

intravenous infusion bottle plug 5806

irradiation 1276

gamma-irradiation 9011

irradiation, animal feed 268

gamma-irradiation, barbiturate 5601

gamma-irradiation, food, bacteria 9662

gamma-irradiation, medical product,

microorganisms 2156

irradiation, methicillin 4769

laser beam-induced plasma, food

container/medicament container 1279

liquid 6533

meat 1789 7801

meat product 1793

medical equipment, quinolizine-2-carboxylic

acid derivatives 4694

medical instrument 3736

medicament 2154

membrane filtration, gas 10213

microwave, packaged food 1777

milk 3424 6123

ozone, wastewater 1471

ozone, water 1471

packaged food 1779

packaged food, retorting tray 5252

packaged load 1278

packaged meat product 1788

packaging material, milk 6532

packing machine 4234

partial, soil, *Plasmodiophora brassicae*,

crucifer 5424

peracetic acid, pharmaceutical cream 2979

phenylmercuric nitrate/phenylmercuric acetate

heat treatment, *Bacillus subtilis* 6538

plastic dip-slide 6751

propylene oxide, dehydrated potato granules

7051

radiation 10211

radiation, food 210

gamma-radiation, protease, food additive

1781

radiation, tetracycline 6610

rendering plant 9682

rendering plant system 6119

rotational, canned food 7793

seafood, iodine + polyvinylpyrrolidone 967

steam 9011 10205

steam, *Bacillus stearothermophilus*, D-value

10206

steam, cystoscope 6536

steam, filter 5599

steam + formaldehyde, urinary endoscope 9013

steam, indicator, *Bacillus thuringiensis*

4696

swimming pool water, chlorine + halogen salt

7500

thermoradiation, *Achromobacter*

aquamarinus/*Staphylococcus aureus*/*Bacillus*

subtilis 1277

ultra-high temperature, aseptic 8533 8534

8535 8536 8537

ultra-high temperature, *Bacillus*

stearothermophilus 9654 9655 9656

ultra-high temperature, milk 7797 9669

ultra-high temperature, milk, bacterial

protease 216

ultra-high temperature, milk product,

bacteriology 8538

ultrasonic, hard contact lens 7353

ultrasonic, soft contact lens 7353

ultraviolet, food packaging 9664

wastewater, chlorine + halogen salt 7500

water, dairy 6715

Subject index

- Sterilisation apparatus,**
canned food 3420
water 2978
- Sterilisation indicator,**
536
 Bacillus stearothermophilus 1274
- Sterilised culture medium,**
pre-reduced anaerobically, anaerobic bacteria 7543
- Sterilised hypodermic needle,**
package 4710
- Sterilised milk,**
 nisin, *Bacillus subtilis*/*Bacillus stearothermophilus* 1785
- Steriliser,**
 10201 10202 10204
 5-amino-3,5-dideoxybutirosin A 6629
 bathroom articles 1280
 control system 10198 10199
 glutaraldehyde, medical equipment 9014
 high-vacuum steam, microbial air pollution 3735
 hospital plastic waste 1285
 Hunister, food 8524
 sporicidal test 766
 steam 3732 10203
 steam, Thermalog TM 1275
 ultraviolet-C-Radiator 5600
 ultraviolet irradiation, toothbrush 1281
- Steriliser-pasteurizer,**
falling-film, milk 960
- Sterilising agent,**
 aminotrideoxybutirosin A 2254
- Sterilising solution,**
 contact lens 1282 1283
 soft contact lens 1284
- Sterility,**
 autoclavable dispenser, disposable pipette tips 7351
- Sterility indicator,**
 10207 10208
 Bacillus pumilus, radiation sterilisation 10211
 Bacillus stearothermophilus, ethylene oxide sterilisation 10210
 Bacillus stearothermophilus, steam sterilisation 10205
 Bacillus subtilis, ethylene oxide sterilisation 10210
 ethylene oxide sterilisation 10209
 medicament container 2162
- Sterility mosaic,**
 pigeonpea, resistance testing 6330
- Sterility test,**
 infusion therapy 3221
- Sterility testing,**
 2153 10207
 antibiotic ophthalmic ointment 1294
 pharmaceutical 5604
 tetracycline, *Bacillus pumilus*, radiation sterilisation 6610
 Thermalog TM 1275
- Sterilization, preservation & packaging,**
 536-547, 1274-1290, 2153-2162, 2978-2985, 3732-3743, 4695-4710, 5599-5613, 6533-6541, 7350-7360, 8103-8108, 9011-9019, 10198-10220
- Sterinol,**
 bactericide 8245
- Steroid,**
 12-dihydro-, bacterial 12-dehydroxylase 867
 butenolide, hydroxylation, *Curvularia lunata* 5103
 cardenolide, hydroxylation, *Aspergillus ochraceus* 5104
 cardenolide, hydroxylation, *Cunninghamella blakesleeana* 5104
 cardenolide, hydroxylation, *Curvularia lunata* 5104
- Steroid (Contd),**
 cortisol, dehydrogenation, *Bacillus cereus* 59
 cortisol, transformation, immobilised *Corynebacterium simplex*, prednisolone 5977
 D-homo-aza-, derivatives, *Geotrichum flavo-brunneum*, antifungal agent 5979
 D-homopregnane, microbial 1,2-dehydrogenation 5978
 hydroxylation, *Calonectria decora* 6929
 hydroxylation, *Monosporium olivaceum*, steroid 11alpha-hydroxylase 3320 3321
 hydroxylation, *Rhizopus nigricans* 6929
 immobilised bacterial hydroxysteroid dehydrogenase 5955
 microbial cholesterol oxidase 4076
 microbial transformation 9501
 Mycobacterium, tall oil sterol transformation 868
 oxygenated 5alpha-androstanes, 16beta-18-dihydroxylation, *Leptosporus fissilis* 3325
 17alpha-pregn-4-ene-21-carboxylic acid derivatives, *Chaetomium cochliodes* 5980
 progesterone, hydroxylation, *Aspergillus*, 11alpha-hydroxyprogesterone 4115
 progesterone, transformation, *Cylindrocarpon radiculola*, androsta-1,4-diene-3,17-dione, 1-dehydrotestololactone 5981
 progesterone, transformation, *Cylindrocarpon radiculola*, androstadienedione 8400
 progesterone, transformation, *Fusarium solani*, androsta-1,4-diene-3,17-dione, 1-dehydrotestololactone 5981
 progesterone, transformation, *Fusarium solani*, androstadienedione 7670
 reduction, *Bacillus megaterium* 61
 reduction, *Mycobacterium phlei* 57
 Scleroderma aurantium 4033
 secodiketones, reduction, *Saccharomyces* 5102
- Steroid 11alpha-hydroxylase,**
 Monosporium olivaceum 3320 3321
- Steroid alkaloid,**
 dehydrogenation, *Nocardia restrictus* 9439
- Sterol,**
 Candida krusei, polyene antibiotics resistance 7312
 Candida parakrusei, polyene antibiotics resistance 7312
 Candida tropicalis, polyene antibiotics resistance 7312
 Neurospora crassa, sterols 5447
 protensterol, *Clitocybe nebularis* 5105
 protensterol, *Rhodopaxillus nudus* 5105
 protensterol, *Tricholoma portentosum* 5105
 Saccharomyces cerevisiae 6930
 tall oil, transformation, *Mycobacterium*, steroid 868
- Stewart's wilt,**
 Erwinia stewartii, corn, inoculation technique 9784
- Stibnite,**
 oxidation, *Thiobacillus ferrooxidans* 8933
- Stigmatella aurantiaca,**
 arid soil 2858
- Stilbella thermophila,**
 enzymes 9350
- Stillage,**
 rum, anaerobic digestion 10446
- Stimulating factor,**
 plant tissue maceration, *Aspergillus japonicus* 2531
- Stinkgrass,**
 Sclerophthora macrospora 4335
- Stinking smut,**
 Tilletia caries/*Tilletia foetida*, wheat 1895
 Tilletia tritici, wheat 4315
- Stipa spartea,**
 nitrogen fixation, nitrogenase 4597

Subject index

- Stock,**
Oidium/Oidiopsis 5299
- Stolbur,**
mycoplasma-like organism, tobacco, tissue culture 367
mycoplasma-like organism, tomato, tissue culture, plant protection 1098
- Stomacher,**
casein, bacteriological assay 4926
- Stone,**
degradation, pigeon excrement microorganisms 4183
- Stone building,**
bacterial leaching 467
- Stone fruit tree,**
microbial diseases 9817
Pseudomonas mors-prunorum, fungicide 9958
Pseudomonas syringae, fungicide 9958
Verticillium 9821
Xanthomonas pruni, fungicide 9958
- Storage,**
+ automated aseptic sampling system, microbial culture 4916
Agaricus bisporus, liquid storage, polypropylene drinking straw 4708
cold, chicken, Salmonella 4239
deep freezer, vacuum-packaged sliced bacon, shelf-life 4242
frozen, dough, Saccharomyces cerevisiae, ethanol 3403
prepacked herring 4246
Saccharomyces cerevisiae, cytochromes 3741
Saccharomyces cerevisiae, viability 3740
- Straw,**
burning, soil microorganisms 8037
degradation, soil microorganisms, fungicide/bactericide/microbiocide 8927
degradation, soil microorganisms, microbiocides 8925 8926
degradation, soil microorganisms, microbiocides, nitrification 8929
drinking, polypropylene, Agaricus bisporus preservation, liquid nitrogen 4708
fermentation, animal feed 9612
soil, Cercospora herpotrichoides, wheat 5334
soil, Fusarium, wheat 5334
soil, Ophiobolus graminis, wheat 5334
soil, Rhizoctonia solani, wheat 5334
wheat, Chaetomium cellulolyticum, protein, cellulase 9347
wheat, degradation, soil, acetic acid, phytotoxin 7251
wheat, Trichoderma viride, protein, cellulase 9347
- Straw burning,**
wheat, microbial disease, fertilisation, straw, wheat, microbial disease 1887
- Straw fertilisation,**
wheat, microbial disease 1887
- Straw hydrolysate,**
Aureobasidium pullulans, protein, food/animal feed 4054
- Strawberry,**
Alternaria alternata, phenolic compounds 1952
Botrytis cinerea 4291
Botrytis cinerea, benomyl tolerance 6372
Botrytis cinerea, benomyl tolerance, glycopene 88C6
Botrytis cinerea, fungicide 7976
Erysichlamys nivea, patulin 237
Colletotrichum fragariae 4418
extract, antiviral agent 2962
fungal post-harvest decay 7192
fungal post-harvest decay, fungicide 8760
Fusarium oxysporum 2758
Hainesia lythri 2757
Marssonina fragariae 2757
Pestalotia longisetula 4419
- Strawberry (Contd),**
Phragmidium brevipedicellatum 997
Phytophthora cactorum 9E90
Phytophthora fragariae 2068
Phytophthora fragariae, fungicide 2807
Phytophthora, Phytophthora cactorum, soil 6432
post-harvest decay, gamma-irradiation 1966
Pythium irregular, phenolic compounds 1952
Ramularia 252
resistance, Phytophthora fragariae 1989
Rhizoctonia fragariae 2758
Rhizoctonia solani, phenolic compounds 1952
Rhizopus stolonifer 2757
Sclerotium rolfsii 7142
Tetracadium setigerum 307
virus diseases 8729
Xanthomonas fragariae 4417
- Strawberry crinkle virus,**
strawberry 8729
- Strawberry latent ringspot virus,**
cucumber 4290
ivy 250
rose 7169
- Strawberry mild yellow-edge virus,**
strawberry 8729
- Strawberry mottle virus,**
strawberry 8729
- Streak plate,**
Streptococcus group 3 3998
- Strelitzia reginae,**
Alternaria alternata 6170
- Streptamine,**
2, 5-dideoxy-, Bacillus circulans, butirosins 1408
2,5-dideoxy-, Streptomyces ribosidificus, 5-deoxyneamine 1442
2,6-dideoxy-, Streptomyces fradiae, 6-deoxyneomycins 5681
2,6-dideoxy-, Streptomyces rimosus, 6-deoxyparomomycins 5681
2-deoxy-, Bacillus circulans, 5-deoxybutirosamine 1408
derivatives, antibacterial agent 1441 10254 10255
- Streptococcin,**
Streptococcus group A L-form 4046
- Streptococcus,**
air-dried beef 172
alpha-haemolytic, antibiotics 4728
ampicillin 10269
antibacterial agent 3751
antibiotic A-2315 623
antibiotic G-418 1400
antibiotic sensitivity testing, Autobac 1 9C36
antibiotics 3751 4721 7368 10241
aroma compound 8425
Awshari cheese 6060
bacteriocin typing 10593
bacteriocins 2439
beta-haemolytic, erythromycin 5633
beta-haemolytic, lincomycin 5633
beta-haemolytic, penicillin 5633
beta-haemolytic, sulphafurazole 5633
beta-haemolytic, tetracycline 5633
carbenicillin 3751
carbonamidoquinoxaline-di-N-oxide derivatives 1226
cephalexin/cephradine/cefactor 6578
cephalosporin derivatives 1345
cephalosporin SQ 67-590 5662
cephalosporins 2195 3766 10269
cephalothin/cefamandole/cefoxitin 1325
Cheddar cheese 1739
cheese 1736
cheese bitterness 9565
cheese starter 154
cheese starter, lysogenic strain 2574
chicken manure, composting 8222

Subject index

Streptococcus (Contd),

chloramphenicol 3751
 coagglutination 9287
 continuous culture, hydroxyapatite-coated
 glass beads 6767
 cottage cheese 3394
 culture 2383
 culture medium 3996
 dahi 4163
 dairy starter 1733
 dried/frozen food 131
 efrotomycin 5731
 enrichment medium 3996
 enzymes, food 134
 erythromycin 3751
 faecal, ice-covered river water 3132
 faecal, polluted drinking water 2304
 faeces 3893
 farm bulk milk tanks 6038
 gentamicin 3751
 gentamicins 9090
 group B, ampicillin 2188
 group B, ampicillin + gentamicin 2188
 group B, gentamicin 2188
 group D 606
 group D, josamycin/rosamicin/erythromycin
 2190
 group D, terizidone 650
 heat-resistant, scalding tank water 1530
 hyaluronate lyase 1654
 isolation medium 3996
 lamb 178
 lysozyme 5547
 mastitis, antibiotics 2167
 mastitis, milk 1724
 milk 140 141
 milk, pasteurisation 4236
 milk, proteolysis/lipolysis 142
 milking machine/milking plant 7728
 neomycin 3751
 netilmicin 1429 3814
 netilmicin/gentamicin 6644
 nitrofurazone 3751
 pasteurised milk 7799
 pasteurised milk, nitrate reduction test 137
 PathoTec system 7540
 penicillin derivatives 1357
 penicillins 1347 3751
 phages, sewage, enrichment medium 9202
 pleuromutilin derivatives 10400
 polymyxin 3751
 pyrimidine derivatives 502
 quinolizine-2-carboxylic acid derivatives
 4694
 quinolizine derivatives 8100
 river water 4876
 rosamicin monoesters 5760
 serotyping 3977
 sewage, ultraviolet radiation 1466
 sisomicin/gentamicin 3757
 slide agglutination 6790
 Streptococcus group D 4197
 streptolysin S, antitumour agent 4017
 streptomycin 3751
 sulphamethoxazole-trimethoprim 7319
 sulphonamide derivatives 6528
 swimming pool water 3899
 Swiss cheese/milk/whey/butter 162
 T-1 antigen 8336
 tetracycline resistance 4631
 tibezonium 9008
 transport medium 3996
 Tribissen (sulphadiazine + Trimethoprim)
 2939
 usnic acid 1228
 wastewater, membrane filter 1506
 wastewater, soil rapid infiltration 6710
 water 3893
 water, membrane filter 1506

Streptococcus 6646 K,

beta-N-acetylhexosaminidase 1632
 beta-galactosidase 1632

Streptococcus agalactiae,

antibiotics resistance 7297
 culture medium 1581
 josamycin 640
 mastitis, antibiotics 2167
 milk 6996
 nitrofuryl-vinyl-anilino-quinazoline
 derivatives 6504
 quinazoline derivatives 7037
 R factor, antibiotics resistance 3672
 streak plate/pour plate/selective
 broth/direct immunofluorescence 3998
 triorganotin compounds/triorganolead
 compounds 2129

Streptococcus allantoicus,

purine degradation 119

Streptococcus bovis,

amylase testing medium, Mueller-Hinton agar
 4000
 antibiotics 4728
 dried/frozen food 131
 econazole 2974
 enrichment/isolation medium 9288
 faeces 3893
 gardimycin 1419
 lactic streptococci 4197
 miconazole 2974
 phages, sewage, enrichment medium 9202
 preservation 4703
 protein, digestibility, buffalo 6096
 protein, digestibility, goat 6096
 rumen, ATP 6782
 ruminant feed, milk 944
 water 3893

Streptococcus citrovorus,

butter-like dairy product 1728

Streptococcus cremoris,

acetate, glucose culture 4196
 autolysin 1734
 autolysis 6043
 butter-like dairy product 1728
 Cheddar cheese 6062 7752
 cheese 152 1735 7004
 cheese, citrate 6047
 cheese starter, glycerophosphate-milk-agar
 medium 155
 cottage cheese 6064
 culture, cheese starter 153
 cultured butter 6049
 dahi, colostrum 1730
 dairy starter 6054
 fermented milk products 6056
 Gouda cheese 7756
 hard cheese 6057
 lactic acid, milk, psychrotropic bacteria
 9546
 lactic casein 7747
 lactose fermentation, milk 2570
 milk 139
 milk protein hydrolysis, cheese 5221
 milk proteolysis 7030
 phage 4198
 phage carrier state 7745
 phage, cheese 4199
 phage, cheese factory 3389
 phage-resistant, cheese 5218 5219
 preservation 7358
 protease, cell wall-associated, milk, cheese
 5220
 Provolone cheese 2577
 quark 5214
 skim milk culture medium 7746
 soybean cheese spread 9599
 Streptococcus group D 4197
 Superstart culture, cheese 6053
 Ulloa cheese 9572

Subject index

Streptococcus diacetylactis,

acetate, glucose culture 4196
butter-like dairy product 1728
Cheddar cheese 8499
cheese 152 7004
cheese, citrate 6047
cottage cheese 3395
culture, cheese starter 153
cultured butter 5213 6049
dairy starter 6054
enzyme, milk product 7739
fermented meat products 6082
fermented milk products 6056
hard cheese 6057
lactose fermentation, milk 2570
lyophilisation preservation, gelatine capsule 7359
milk 139
milk product 8492
endo-peptidase 6908
soybean cheese spread 9599

Streptococcus durans,

cheese 152
counterimmunoelectrophoresis 4973
Emmental cheese 8501
Emmentaler cheese 2576
enrichment/isolation medium 9288
faeces 3893
frozen food 9533
beta-galactosidase 27
ice cream 8485
water 3893

Streptococcus emoliticus,

bacteriostat, diaper 5817

Streptococcus equinus,

antibiotics 4728
enrichment/isolation medium 9288
phages, sewage, enrichment medium 9202
quinoxaline-1,4-dioxide derivatives 3689

Streptococcus faecalis,

alcoholic chlorhexidine 8252
alcoholic chloroxylenol 8252
ampicillin, sensitivity test broth/urine 3009
ampicillin + streptomycin 7379
anhydroerythromycin B 3046
antibacterial agent/antibiotic 1214
antibiotic 19 402 R.P. 3798
antibiotic A23187 2239
antibiotic AV290 alkylated derivatives 1394
antibiotic DE-3936/lonomycin 2242
antibiotic TA 6621
antibiotic XK-90 5710
antibiotics 3003
antibiotics resistance 8950
antibiotics resistance, R factor 8962 10121
assay, folic acid, fermented milk product 1731
bacteriostat/bactericide 1256
bacteriostat, diaper 5817
bedpan, disinfection 2345
benzene derivatives 2131
benzo-1,2,4-triazines 1225
benzotriazine-1,4-dioxide derivatives 2091
benzotriazine-1,4-dioxide derivatives 2118
bovine manure silage 7791
brinsen cheese 6066
5-(bromoacetyl)-uracil 4660
caiomycin B 6630
carbenicillin, sensitivity test broth/urine 3009
cefazolin, sensitivity test broth/urine 3009
cephalosporin BL-S786 1327
cephalosporin derivatives 570 1341 1342 1343
3017 3018 3019 3769 9070
cephalosporin R-sulphoxides 4736 5637
cephalosporins 1324
cephalothin/cefamandole/cefoxitin 1325

Streptococcus faecalis(Contd),

cephalothin, sensitivity test broth/urine 3009
chain disrupting system, gel filtration 413
chalcone analogues 8071
chicken, feed antibiotics 9628
chloramphenicol resistance, chloramphenicol acetyltransferase 8961
chlorhydroxyquinoline assay 8101
N-chlorocarboxylic acid derivatives 529
chlorodicyano benzene organosulphur derivatives 5595
citrate lyase 2458
coagglutination 9287
counterimmunoelectrophoresis 4973
culture, hydrostatic pressure 7576
cyclic dimedone derivatives 1266
cycloalkyl-4-oxoquinoline-3-carboxylic acid derivatives 2141
2-deoxystreptamine-aminoglycoside derivatives 6560
D-3,6-diaminohexanoic acid
2-(carboxymethyl)-2-methylhydrazine 2151
2,6-diaminopurine derivatives 501
dried/frozen food 131
econazole 2974
enniatin 652
enrichment/isolation medium 9288
enterocines, food, antibacterial agent 2559
erythromycin resistance 10127
faeces 3893
5-fluorouracil assay 10600
formaldehyde 5523
formimicin A 8181
frozen erythrocytes 1293
frozen food 9533
beta-galactosidase 27
gardimycin 1419
gramicidin A/gramicidin A analogues 4804
ice cream 8485
iodopolymers 1258 1259
iron oxidation 4613
lactic streptococci 4197
lincomycin resistance 10127
long chain aliphatic monoamines 3693
magnesidin 3810
miconazole 2974
milking machine 9536
monensin assay, chicken feed 7785
5-O-mycaminosyl narbonolide 7438
Mycobacterium tuberculosis, culture medium 3988
netilmicin + penicillin G 5752
nitrofurantoin derivatives 1220
nitrofuryl-vinyl-anilino-quinazoline derivatives 6504
nitrothiazole derivatives 1269
8-oxo-4-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid 8122
packaged milk 7049
penicillin derivatives 6589 6590 7405 7406 7408
penicillin R-sulphoxides 4736 5637
penicillin, sensitivity test broth/urine 3009
penicillins 1347
peptides 7329
phages, sewage, enrichment medium 9202
phenethyl alcohol, electron microscopy 1218
phenoxacetamido-nitrothiazole derivatives 2973
Provolone cheese 2577
purine derivatives 7325
pyrano-indole derivatives 7349
pyrimidine derivatives 7325
quaternary ammonium compound 3890
quaternary ammonium salt 470
quinazoline derivatives 7037
quinolizine-2-carboxylic acid derivatives 4694

Subject index

Streptococcus faecalis (Contd),
 quinolizine derivatives 8100
 resistance, formaldehyde 5523
 ribofuranosyl-1,2,3-triazole derivatives 3727
 river water 3133
 sheep cheese 6066
 soybean cheese spread 9599
 soybean idli fermentation 7027
 6-spirocycloalkylamino 5-nitropyrimidine derivatives 2947
Streptomyces orientalis 3082
 substituted sulphonylacetamido cephalosporins 2204 2205 2206
 thiourea derivatives 3933
 ticarcillin, sensitivity test broth/urine 3009
 2,4,6-triaminopyrimidine derivatives 501
 turbidimetric assay, bacitracin, animal feed 949
 Ulloa cheese 9572
 ureidoacetamido-penicillin derivatives 8161
 beta-ursolic acid 6532
 valinomycin 652
 vanilla slices 8514
 water 3893
 whole egg, heat resistance, thermal death time pouch 3397

Streptococcus faecium,
 antibiotics resistance, R factor 8962
 chicken, feed antibiotics 9628
 culture medium, urease 4974
 dried/frozen food 131
 econazole 2974
 Emmental cheese 8501
 Emmentaler cheese 2576
 enrichment/isolation medium 9288
 faeces 3893
 folic acid antagonists 10144
 frozen food 9533
 beta-galactosidase 27
 ice cream 8485
 miconazole 2974
 netilmicin + penicillin G 5752
 phages, sewage, enrichment medium 9202
 Ulloa cheese 9572
 water 3893

Streptococcus group A,
 bacitracin, blood agar medium 4971
 bacitracin + sulphamethoxazole-trimethoprim discs 1579
 immunofluorescence/bacitracin sensitivity testing 10596
 immunofluorescence, bromelase 10597
 L-form, streptococci 4046
 Phadebact Streptococcus test 10594
 selective medium 1580
 sheep blood agar + sulphamethoxazole-trimethoprim selective medium 10595
 slide agglutination/nitrous acid extraction/Lancefield hot-hydrochloric acid extraction serological grouping 1577
 slide co-agglutination 1578
 tetracycline resistance 4646 4647

Streptococcus group B,
 antibiotics 3194
 bacitracin + sulphamethoxazole-trimethoprim discs 1579
 CAMP-disc test 10598
 identification tests 3194
 penicillin G 602
 Phadebact Streptococcus test 10594
 pigment, identification medium 3999
 sheep blood agar + sulphamethoxazole-trimethoprim selective medium 10595
 slide agglutination/nitrous acid extraction/Lancefield hot-hydrochloric acid extraction serological grouping 1577

Streptococcus group B (Contd),
 slide co-agglutination 1578
 starch/serum agar medium 4972
 streak plate/pour plate/selective broth/direct immunofluorescence 3998

Streptococcus group C,
 Phadebact Streptococcus test 10594
 slide agglutination/nitrous acid extraction/Lancefield hot-hydrochloric acid extraction serological typing 1577
 slide co-agglutination 1578

Streptococcus group D,
 agar droplet method 3165
 aminoglycoside antibiotics 1319
 amylase testing medium, Mueller-Hinton agar 4000
 antibiotics 5634 6557 6565 736b 10241
 antibiotics resistance 4631
 antibiotics resistance, R factor 8962
 azlocillin 10293
 beta-aminoketones 2108
 carbonamidoquinoxaline-di-N-oxide derivatives 1226
 cefazaflur 7401
 cefuroxime/cephalothin 10277
 cephaecitile + amikacin/gentamicin/sisomicin/tobramycin 6555
 cephalosporin derivatives 1340
 chelocardin anilino derivatives 3064 5726
 comminuted turkey meat 6073
 counterimmunoelectrophoresis 4973
 doxytetracycline 7313
 dry sausage 3400
 Emmental cheese 8501
 enrichment/isolation medium 9288
 enterocines, food, antibacterial agent 2559
 cyclic-erythromycin A 6,9-hemiacetal carbonate L-aspartate 5688
 fermented meat product 6082
 frozen food 9533
 heat-resistant, scalding tank water 1530
 ice cream 8485
 beta-lactam antibiotics 6553
 lactic streptococci 4197
 luncheon meat 9578
 milk, pasteurisation 4236
 nafcillin/oxacillin/methicillin + gentamicin/tobramycin 5642
 nebramycin 2265
 netilmicin + penicillin G 5752
 netilmicin/sisomicin 3815
 oxolinic acid 5563
 penicillin + netilmicin 10253
 phenoxacetamido-nitrothiazole derivatives 2973
 Provolone cheese 2577
 rapid hippurate hydrolysis test 10599
 resistance, doxytetracycline 7313
 resistance, tetracycline 7313
 river water 8242
 sulphamethoxazole-trimethoprim resistance 6472
 terizidone 5555
 tetracycline 7313
 water, food industry 5795

Streptococcus group G,
 Phadebact Streptococcus test 10594
 slide agglutination/nitrous acid extraction/Lancefield hot-hydrochloric acid extraction serological grouping 1577
 slide co-agglutination 1578

Streptococcus haemolyticus,
 3-formylrifamycin R.V dimeric hydrazones 6603
 antibiotic 19 402 R.P. 3798
 antibiotic U-43120 1402
 cephalosporin R-sulphoxides 4736 5637
 chloramphenicol resistance, chloramphenicol acetyltransferase 8961
 gardimycin 1419

Subject index

- Streptococcus haemolyticus(Contd),**
 lipiarmycin 8186
 nitroimidazole derivatives 1270
 penicillin R-sulphoxides 4736 5637
- Streptococcus lactis,**
 alborixin 5714
 aroma compound 8425
 brine cheese 3392
 cheddar cheese 7752
 cheese 152 3390 7004
 cheese, citrate 6047
 cheese starter, glycerophosphate-milk-agar medium 155
 cinnamyl phenols 532
 cottage cheese 6064
 culture, cheese starter 153
 dahi, colostrum 1730
 dairy starter 6054
 dried/frozen food 131
 fermented meat product 6082
 fermented milk products 6056
 freezing, preservation 6541
 germicide 6742
 hard cheese 6057
 Israeli pickled cheese 9571
 lactic acid, milk, psychrotropic bacteria 9546
 lactose fermentation, milk 2570
 lyophilisation preservation, gelatine capsule 7359
 milk 139 921
 milk product 8492
 milk protein hydrolysis, cheese 5221
 nisin 4818
 peptidase, dairy product 9564
 phage 4198
 phage, cheese 4199
 phage, cheese factory 3389
 phage-resistant, cheese 5219
 preservation 7358
 Provolone cheese 2577
 sheep cheese 6066
 soybean cheese spread 9599
 Streptococcus group D 4197
 Superstart culture, cheese 6053
 tyrosine decarboxylase/histidine decarboxylase 8493
 Ulloa cheese 9572
 ultra-high temperature milk product 8538
- Streptococcus liquefaciens,**
 counterimmunoelectrophoresis 4973
 faeces 3893
 water 3893
- Streptococcus MG,**
 antibiotics 4728
- Streptococcus mitior,**
 cephalosporin derivative 1329
- Streptococcus mitis,**
 antibiotics 4728
 dextranase, dextran degradation 6980
 pyridazine-2-oxide derivatives 3932
 quaternary ammonium compounds 1535 2146
 urease assay 8271
- Streptococcus mutans,**
 antibacterial agent 552
 bacteriocin 8329
 bis-biguanoide hexane compound, oral hygiene 8261
 chlorhexidine 10152
 culture medium 1582 1583
 dental plaque, iodine-containing compounds 10504
 dental plaque, microbial
 dextranase/cariogenesis 4058
 dextransucrase 7620
 exudate 1683
 fatty acids, gas chromatography 5889
 isolation and differentiation medium 10602
 isolation medium 10601
 lipiarmycin 8186
- Streptococcus mutans(Contd),**
 mannitol 5153
 penicillin + sulphadiazine 603
 quaternary ammonium compounds 2146
 Streptomyces griseus lytic enzyme 827
- Streptococcus mutans vaccine,**
 6663
- Streptococcus paracitrovorus,**
 enzyme, milk product 7739
- Streptococcus pneumoniae,**
 7-(2-aminomethylphenylacetamido)-3-(1-carboxy methyltetrazol-5-ylthiomethyl)-3-cephem-4-carboxylic acid)-cepham-4-carboxylic acid 7398
 ampicillin 5671
 antibiotic 333-25 1387 1388
 antibiotic 339-29 5704
 antibiotic B-43 5705
 antibiotic DE-3936/lonomycin 2242
 blood culture 768
 brevistin 2251
 cefadroxil 5651
 ceftazidime 5654
 cephalosporin derivative 1329
 cephalosporin derivatives 1345 7395
 cephalosporin SQ 67,590 5662
 cephalosporins 3766
 chloramphenicol resistance, chloramphenicol acetyltransferase 8961
 coagglutination 9287
 gentamicin blood agar isolation medium 10603 10604
 josamycin 640
 laterosporamine 2261
 mezlocillin 5672
 penicillanic acid derivatives 4765
 Streptomyces orientalis 3082
 thiocillin I/thiocillin II/thiocillin III 2270
 tolerance, beta-lactam antibiotics 2168
- Streptococcus pyogenes,**
 7-(2-aminomethylphenylacetamido)-3-(1-carboxy methyltetrazol-5-ylthiomethyl)-3-cephem-4-carboxylic acid)-cepham-4-carboxylic acid 7398
 acetone 4975
 actinomycin antibiotic 70591 1389
 analgesic agents 6495
 antibiotic 333-25 1387 1388
 antibiotic 339-29 5704
 antibiotic 342-14-T 4787
 antibiotic 41,012 10334
 antibiotic A16884 6619
 antibiotic A-4696 624
 antibiotic AV290 alkylated derivatives 1394
 antibiotic B-43 5705
 antibiotic EM-49 tetramidino derivatives 5707
 antibiotic G-52 1398
 antibiotics 3000
 bacteriostat/bactericide 1256
 benzo-1,2,4-triazines 1225
 benzodiazepine derivatives 5560
 benzotriazine-1,4-dioxide derivatives 2091
 benzotriazine-1,4-pdioxide derivatives 2118
 brevistin 2251
 cefadroxil 5651
 ceftazidime 5654
 cephalosporin derivative 1329
 cephalosporin derivatives 570 571 573 1316 1335 1337 1338 1341 2198 2212 3768 3769 5659 7394 8140 8142 8143
 cephalosporins 2174 2201 3016
 cepham derivatives 2200
 chalcone analogues 8071
 chelocardin anilino derivatives 3064 5726
 contact lens sterilising solution 1282
 bis(diphenylaminomethane) derivatives 1265
 disinfectant 6726
 disinfectants 8245
 econazole 2974

Subject index

- Streptococcus pyogenes (Contd),**
 erythromycin + lincomycin resistance 10128
 ethanol 3138
 exotoxin 246
 9-hydroxyellipticine 1229
 josamycin 640
 laterosporamine 2261
 mazlocillin 5672
 miconazole 2974
 nitrofurans derivatives 1220
 nitroimidazole-pyrimidine derivatives 4661
 oxamicetin 3073
 penicillanic acid derivatives 3040 4765
 penicillin derivatives 1316 1352 1353
 penicillin *Escherichia coli* 1350
 penicillins 2174 3777
 phenyl-indole derivatives 6530
 preservation 4703
 preservatives 2157
 pyrogenic exotoxin C 7098
 quaternary ammonium compounds 2319
 quinoline-3-carboxylic acid derivatives 3688
 quinoxaline-1,4-dioxide derivatives 3689
 quinoxaline-2-carboxamide-1,4-dioxide derivatives 8982
 rancinamycin I/rancinamycin II/rancinamycin III/rancinamycin IV 5759
 selective medium 3162
 6-spirocycloalkylamino 5-nitropyrimidine derivatives 2947
 streptolysin O, zinc 9744
Streptomyces orientalis 3082
 substituted sulphonylacetamido cephalosporins 2204 2205 2206
 test 1559
 thio-beta-lactam cephalosporins 5666
 thio-beta-lactam penicillins 5679
 thiocillin I/thiocillin II/thiocillin III 2270
 tibezonium 9008
 transport system 5837
 beta-ursolic acid 6532
 verdamycin 1 562
 veterinary topical products 2970
 vitamin D3 10187
- Streptococcus salivarius,**
 antibiotics 4728
 chlorhexidine 10152
Mycobacterium tuberculosis, culture medium 3988
 polysaccharide 2514
- Streptococcus sanguis,**
 chlorhexidine 10152
 dental plaque, antibacterial agent, hydroxyapatite-coated glass beads 2107
 dental plaque, iodine-containing compounds 10504
 dextransucrase 6884
 glucan 5069
 glucosyltransferase 5069
 quaternary ammonium compounds 2146
 tolerance, beta-lactam antibiotic 8126
- Streptococcus SBE,**
 antibiotics 4728
- Streptococcus thermophilus,**
 + *Lactobacillus bulgaricus*, culture 150
 brine cheese 3392
 cheese 152 6048 6049 7004
 dairy starter 6054
 Emmental cheese 7749 8500
 fermented milk products 6056
 hard cheese 6057
 lyophilisation preservation, gelatine capsule 7359
 milk 139
 milk, amino acids 9545
 pasta filata cheese 1742 9563
 phage, medium 151
- Streptococcus thermophilus (Contd),**
 soybean cheese spread 9599
 yoghurt 147 149 927 1732 5214 5215 6067 6069 7742 9548
 yoghurt, beta-glycerophosphate selective medium 6070
 yoghurt, hydrolysed milk 9547
 yoghurt, lactase 7002
 yoghurt, soybean meal 189
- Streptococcus uberis,**
 antibiotics 4728
 chlorhexidine/iodophor/quaternary ammonium compound/hypochlorite teat dip 3922
- Streptococcus viridans,**
 antibiotic 19 402 R.P. 3798
 antibiotics 5634
 antibiotics resistance 4631
 bacteriostat, diaper 5817
 cephalosporin derivatives 7394
 gardimycin 1419
 milk, pasteurisation 4236
 nitroimidazolyl-acetylpropenoic acid derivatives 2136
 beta-ursolic acid 6532
- Streptococcus zooepidemicus,**
 quinoxaline-1,4-dioxide derivatives 3689
- Streptococcus zymogenes,**
 counterimmunoelectrophoresis 4973
 faeces 3893
 water 3893
- Streptocycline,**
Xanthomonas malvacearum, cotton 3595
- Streptogramin A,**
 ribosome 8194
- Streptogramin B,**
 ribosome 8194
- Streptolidine,**
 nourseothricin, *Streptomyces noursei* 9146
- Streptolydigin,**
Streptococcus mutans 552
- Streptolysin O,**
Streptococcus pyogenes, zinc 9744
- Streptolysin S,**
Streptococcus, antitumour agent 4017
- Streptomidone,**
 9-methyl-, *Streptomyces*, antifungal agent 649
- Streptomycin A,**
Streptomyces griseus, antibacterial agent 5763
- Streptomyces,**
 see also *Actinomyces* 3214 4996
 D-alanyl-meso-2,6-diaminopimelic acid
 endopeptidase, *Lactobacillus plantarum*
 peptide/glycopeptide 4063
 aminoglycoside antibiotics, antibacterial agent 3755
 amylase inhibitor 4049
 antibiotic A-7, antifungal agent 7426 9113
 antibiotic B-41 625 3801
 antibiotic FR-1923 3602
 antibiotic LL-BM408, antibacterial agent 10311
 antibiotic NRC-501 3060
 antibiotic X-537A 627
 antibiotic XK-90, antibacterial agent 5710
 antibiotic XK-90, structure 9117
 antibiotics 10235
 antimycin A 1405 1406
 aureothin, mycolutein 1385
 bacteriocins 2439
 bichlobenil assay, soil microorganisms 8918
 cairomycin B, antibacterial agent 6630
 cannabinoid transformation 8426
 carob bean flour 3405
 cellulase, carboxymethylcellulose medium 3948
 cephalosporins 5648

Subject index

Streptomyces (Contd),

chloramphenicol, chloramphenicol acetyltransferase, chloramphenicol-3-acetate esterase 9095
 compound H 646-SV3, antifungal agent, trichomycin potentiation 9481
 compound NA-337 6953
 culture, turbidimetry 4001
 cycloheximide, antifungal agent 6633
 daunorubicin, epsilon-rhodomyconone, 7-deoxy-daunorubicinol aglycone 9460
 deisovaleryl-blastomycin 5722
 desert soil 6411
 dextrose isomerase, glucose, fructose 838
 DNA 9453
 enumeration medium, starch casein salt agar 6791
 enzyme immobilization 2
 estuarine water/sediment, petroleum degradation 10109
 ezomycin A1, structure 6636
 ezomycin A2, structure 6636
 fatty acid/polyene macrolide antibiotic 4748
 ferramidochloromycin, lipid/oil 6543
 forest soil 2076
 formycin 4807
 glucose isomerase 2469
 glycoside-hydrolase inhibitor 80
 heat-resistant, scalding tank water 1530
 holomycin 10373
 hyeromycin, structure 4806
 labelled lincomycin 8165
 labilomycin, pulvomycin 1385
 beta-lactamase 9411
 maridomycin III transformation 5746
 marsh, antibiotics 3056
 methanol 3235
 2-methyl-L-arginine 1424 1425
 2-methyl-L-ornithine 1425
 9-methylstreptimidone, antifungal agent 649
 neothramycin, antitumour antibiotic 9462
 nojirimycin, D-gluconic-delta-lactam, microbial glucose oxidase/glucose dehydrogenase 1435
 phleomycins 9463
 piericidin A, structure 9490
 preservation, organic solvents 5609
 N-propionylholothin 10373
 proteinase inhibitor 8333
 red beet 6253
 rhizosphere, molybdenum 6415
 samarasporin 4824
 soil, aldrin degradation, exo-dieldrin 10074
 soil, antibiotics, antibacterial agent 9025
 soil, growth factor 7682
 soil, beta-mannan degradation 9525
 soil, vitamin B12 9025
 streptomycin, streptomycin-phosphorylase 6493
 tetrahydrocannabinol transformation 8427
 volatile compounds, antifungal agent 8986
 volatile odour compound 1695
 xylanase 5100 5101
 xylanase, xylan 55 56
 xylose isomerase, dextrose, levulose 7669

Streptomyces aburaviensis,
 desert soil 6411

Streptomyces achromogenus,
 glucose isomerase, fructose 6893

Streptomyces actuosus,
 nosiheptide, structure 6645

Streptomyces albidoflavus,
 cellulase, carboxymethylcellulose medium 3948

Streptomyces alboflavus,
 soil, Rhizobium 3646

Streptomyces albogriseolus,
 subtilisin inhibitor 4050 4051

Streptomyces alboniger,
 puromycin 8190

Streptomyces alboverticillus,
 pyridinolol, beta-galactosidase inhibitor 5155

Streptomyces albus,
 alborixin 4793 5714
 amylase, maltose 15
 glucose isomerase, fructose 6893
 prodigiosin 8188
 salinomycin, antimicrobial agent 3077
 salinomycin, mass spectrometry 3076
 volatile compounds, antifungal agent 8986

Streptomyces amylovorus,
 antibiotic P-3355 2244

Streptomyces antibioticus,
 actinomycin 3804
 actinomycins 2248
 antibiotic 1745A/X, antibacterial agent 10337

3-O-oleandrosyl-5-O-desosaminylerythronolide A oxime 5690
 soil, Rhizobium 3646

Streptomyces aquacanus,
 antibiotic AB-74 1391 1392

Streptomyces argenteolus,
 pepstatin 6836
 pepstatins 2445

Streptomyces armentosus,
 sulphur oxidation,
 7-methylthioxanthone-2-carboxylic acid,
 7-methylsulphonylxanthone-2-carboxylic acid 9483

Streptomyces atroolivaceus,
 mithramycin 6642

Streptomyces aureofaciens,
 adenylate kinase 3297
 amylase 3252 3253 3254 3795
 amylase, maltose 15
 chlortetracycline 3760 3795 4784
 chlortetracycline, acridine orange 3794
 chlortetracycline, DNA 8173
 chlortetracycline, RNA/ribosomes 3792
 daunomycinone transformation,
 dihydrodaunomycinone 7428
 guanyloribonuclease 3282
 lipase, triglyceride assay 3290
 moenomycin, fast neutron irradiation 9027
 narasin 5748 10388
 nucleoside diphosphokinase 3297 3298
 ribosomes, chlortetracycline 3793

Streptomyces aureus,
 immobilised, glucose isomerase, D-fructose 5067

Streptomyces bambergensis,
 moenomycin 10384

Streptomyces bikiniensis,
 glucose isomerase 5066
 phleomycins 9463
 streptomycin 10305

Streptomyces bottropensis,
 gastric juice inhibitory substance 885

Streptomyces cacaoi,
 5-carboxyuracil nucleoside, polyoxins/octosyl acid 3075

lysocellin, cation selectivity 10381
 polyoxins 10401
 polyoxins, carbamoyl polyoxamic acid 10360

Streptomyces caespitosus,
 mitomycin A/mitomycin B/mitomycin C 3072

Streptomyces calvus,
 desert soil 6411

Streptomyces calvuligerus,
 clavulanic acid, bacterial beta-lactamase inhibitor 8178

Streptomyces candidus,
 antibiotic AV290 201 3800
 antibiotic AV290, antibacterial agent 1394
 antibiotic OS-3256-B, antitumour
 antibiotic/antibacterial agent 9456
 enterocin 1415
 enterocin, structure 6635

Subject index

- Streptomyces candidus**(Contd),
pyrazofurin acylates, antifungal
agent/antiviral agent 2138
spore-lytic enzyme 5097
- Streptomyces cattleya**,
thienamycin 651
- Streptomyces cellulosa**,
antibiotic X-372A 1403
- Streptomyces chaeochromogenes**,
soil, humate 2859
soil, montmorillonite 2859
- Streptomyces chartreusis**,
antibiotic A23187 2239
cephamycin-type antibiotic, antibacterial
agent 7399
ionophore A23187, assay, *Staphylococcus*
aureus 8062
- Streptomyces cinnamonensis**,
monensin, rumen fermentation, ruminant feed
3417
- Streptomyces cirratus**,
cirramycin A1/cirramycin B1 631
- Streptomyces clavuligerus**,
bacterial beta-lactamase inhibitor 3347
deacetoxycephalosporin C 10282
- Streptomyces coelicolor**,
actinorhodin 3062
amylocyanin 6942
chloramphenicol resistance 6488 8053
perimycin A, structure 3816
prodigiosin 8188
soil, humate 2859
soil, montmorillonite 2859
- Streptomyces cyaneus**,
soil, *Rhizobium* 3646
- Streptomyces echinatus**,
echinomycin 635
glucose isomerase, fructose 6893
protease 5089 5970
- Streptomyces edersensis**,
moenomycin 10384
- Streptomyces erythreus**,
3-O-(2,6-dideoxy-alpha-L-arabino-hexopyranosyl)-
erythronolide B 5689
3-O-(2,6-dideoxy-alpha-L-ribo-hexopyranosyl)-
erythronolide B 5689
- Streptomyces eurocidicus**,
laidlomycin, structure 4807
- Streptomyces ficellus**,
antibiotic U-48266, antibacterial agent 4789
feldamycin, antibacterial agent 5734
feldamycin, structure 6637
ficellomycin, antibacterial agent 5733
nojirimycin, antibacterial agent 5734
- Streptomyces filipinensis**,
cephamycin C 9057
- Streptomyces flavescens**,
tirandamycin B 2273
- Streptomyces flavochromogenes**,
picromycin 1436
- Streptomyces flavohelwanensis**,
antibiotic AS-H-23A, antibacterial agent
9116
- Streptomyces flavopersicus**,
fermentation residue, turkey feed 1768
spectinomycin 2171
- Streptomyces flavovirens**,
glucose isomerase, fructose 6893
- Streptomyces flavoviridis**,
phleomycin, bleomycins 629
phleomycins 9463
- Streptomyces flavus**,
amylase, maltose 15
soil, *Rhizobium* 3646
- Streptomyces fradiae**,
6-deoxyneomycins 5681
degradation, insoluble polymers 116
dekamycin, antibacterial agent 8180
fradiase, animal feed microflora 43
marsh, antibiotics 3056
- Streptomyces fradiae**(Contd),
neamine, neomycin 3041
neomycin 2171 2180 2181 3783
protease, xanthan gum clarification 3332
tylosin 6662
tylosin, C-13 nuclear magnetic resonance
spectroscopy 10376
- Streptomyces galilaeus**,
galirubins 10369
- Streptomyces geyseriensis**,
moenomycin 10384
- Streptomyces ghanaensis**,
demethylchlorotetracycline, fast neutron
irradiation 9027
moenomycin 10384
- Streptomyces glaucochromogenes**,
lambdamycin 4808
lambdamycin, chartreusin 10375
- Streptomyces globisporus**,
actinoxanthin, antitumour agent/antibacterial
agent 5120
- Streptomyces goldiniensis**,
aurodox 9126 10352
- Streptomyces granaticolor**,
spores, homogenization, synchronous culture
7577
- Streptomyces griseochromogenes**,
blastacidin S, pentopyranic acid 1407
pentopyranic acid 812
- Streptomyces griseoruber**,
hedamycin, structure 10372
- Streptomyces griseoviridis**,
etamycin 5732
- Streptomyces griseus**,
2-deoxystreptomycin 1369
aplastomycin, antibacterial agent 5717
candidin 2255 9129
chloramphenicol acetyltransferase 6882
chloramphenicol acylation 1372
culture 10605
cycloheximide, antifungal agent 6633
deacetoxycephalosporin C 10282
enzymatically-active protein cell membrane
complex 5912
glucose transformation 6954
griseoviridin, structure 3807
griseusin A/griseusin B, structure 3071
immobilised, glucose isomerase, D-fructose
5067
lytic enzyme 827
neuraminidase 9421
penicillin amidase, 6-aminopenicillanic acid
598
penicillin amioase, + penicillin,
6-amino-penicillanic acid 4763
protease, hide treatment 8386 8387
protease, immobilisation 7650
protease, xanthan gum clarification 3332
serine proteinase, N-acetyl-L-methionine 2424
serine proteinase D, serine proteinase E
8392
soil, humate 2859
soil, montmorillonite 2859
streptomutins A 5763
streptomycin 1369 2171 2180 2181 2224 3760
7541
streptomycin, penicillin 6592
streptomycin, rRNA 3781
streptomycin, streptomycin-phosphorylase
6593
d-tetrandrine dealkylation,
N(2)-nor-d-tetrandrine 77
Trigonella corniculata seed 1017
trypsin, pronase, affinity chromatography 50
volatile compounds, antifungal agent 8986
- Streptomyces halstedii**,
magnamycin 10382
volatile compounds, antifungal agent 8986
- Streptomyces hawaiiensis**,
soil, *Rhizobium* 3646

Subject index

- Streptomyces hofunensis**,
seldomycins 9150
seldomycins, antibacterial agent 9149
- Streptomyces humidus**,
phleomycins 9463
- Streptomyces hydropiscus**,
rapamycin 1437
- Streptomyces hygroscopicus**,
amylase, maltose 15
antibiotic DE-3936 2242
deacetoxycephalosporin C 10282
1-deoxy-D-threo-pentulose 5728 5729
geldanamycin 7423
hygrolytin 5956
leucomycin A3, maridomycin II, carbomycin A,
carbomycin B 10331
libanamycin 7423
minomycin 9142
nigericin 7423
nocardamine 7423
turimycin 3080
- Streptomyces jamaicensis**,
monamycin 3813
- Streptomyces kagawaensis**,
antibiotic F-1028, fungicide/bactericide,
plant protection 1395 1396
- Streptomyces kanamyceticus**,
kanamycin 2171 2180 2181
- Streptomyces kitasatoensis**,
fatty acid 5890
leucomycin A1, leucomycin A3 6640
leucomycin A1, leucomycin A3, glucose 10377
leucomycin, C-13 nuclear magnetic resonance
spectroscopy 10376
leucomycin, cerulenin 9139
- Streptomyces lactamdurans**,
cephamycin C 8137
efrotomycin 4800
- Streptomyces lavendulae**,
acylase, 7-aminocephalosporanic acid
derivatives 2207
chlorocarcin A/chlorocarcin B/chlorocarcin C
2263 2264
daunorubicin reduction, antibiotic 20,798
R.P. 9457
beta-lactam antibiotic 1310
mimosamycin 2263 2264
racemomycin-A 4820
racemomycin-D 10403
soil, Phytophthora 5481
soil, Pythium 5481
streptothricin 5764
tetrahydrocannabinol hydroxylation 4146
- Streptomyces libani**,
4-thiouracil, antibacterial agent 6653
- Streptomyces lincolniensis**,
lincomycin, fast neutron irradiation 9027
3-methylthioacrylic acid 4035
rancinamycin I/rancinamycin II/rancinamycin
III/rancinamycin IV, structure 5758 5759
- Streptomyces lipmanii**,
antibiotic A16884, antibacterial
agent/antifungal agent 6619
- Streptomyces litnogenes**,
litnomicin, avian myeloblastosis virus DNA
8187
- Streptomyces lividans**,
6488
- Streptomyces longisporus ruber**,
metacycloprodigiosin 880 881
undecylprodigiosin 879
- Streptomyces lusitanus**,
naphthyridinomicin, Escherichia coli 4814
- Streptomyces luteoreticuli**,
methyl 6-methoxyphenazine-1-carboxylate 4036
- Streptomyces macromyceticus**,
macromonomycin 1691
- Streptomyces mediterranei**,
streptovaricin, antibacterial agent/antiviral
agent 1443
- Streptomyces michiganensis**,
antibiotic OS-1804, antibacterial
agent/antifungal agent 10345
phenoxazone pigment, structure 7680
- Streptomyces mitakaensis**,
mikamycin B lactonase 2483
- Streptomyces murayamaensis**,
kinamycin D 641
- Streptomyces mycohepticum**,
mycoheptin 9143
mycoheptin, sunflower oil cake meal 10224
- Streptomyces neyagawaensis**,
dopa decarboxylase-inhibiting isoflavone
4147
- Streptomyces nigrescens**,
volatile compounds, antifungal agent 8986
- Streptomyces niveus**,
novobiocin 10222
novobiocin, dynamic calorimetry 2543
- Streptomyces nodosus**,
asukamycin, antibacterial agent 5719
tritium-labelled-amphotericin B 2231
- Streptomyces noursei**,
nourseothricin 9146 10394
protease 5089 5970
- Streptomyces novoguineensis**,
amipurimycin, antifungal agent 9124 9125
- Streptomyces olivaceus**,
alpha-amylase 6861 6862
bacterial beta-lactamase inhibitor 3347
glucose isomerase, fructose 6893
immobilised, glucose isomerase, D-fructose
5067
protease 6918
- Streptomyces olivochromogenes**,
dextrose isomerase 839
dextrose isomerase, glucose, fructose 838
immobilised dextrose isomerase, dextrose,
levulose 1649
xylose isomerase 839
xylose isomerase, immobilisation 7668
- Streptomyces orientalis**,
chitinase, Rhizopus cell wall 6881
vancomycin 3082
- Streptomyces parvulus**,
Actinomycin 10347
actinomycin D 5712
actinomycin K1c 8174
actinomycin K1t 8174
actinomycin K2c 8174
actinomycin K2t 8174
- Streptomyces parvus**,
cellulase, carboxymethylcellulose medium
3948
lipase, triglyceride assay 3290
- Streptomyces paulus**,
antibiotic U-43,120 4126
antibiotic U-43120 1402
- Streptomyces peruviansis**,
antibiotic 19 402 R.P. 3798
- Streptomyces peucetius**,
adriamycin, antitumour antibiotic 2525
daunomycin 877
- Streptomyces phaeochromogenes**,
enzymatically-active protein cell membrane
complex 5912
glucose isomerase, fructose 6894
glucose isomerase, glucose, fructose 846
glucose isomerase, immobilisation,
polyacrylonitrile 5952
- Streptomyces platensis**,
9-dihydro-5-O-mycaminosyl narbonolide,
antibacterial agent 7438
1-N-methyl-pseudouridine 9449
1-methylpseudouridine 5113
5-O-mycaminosyl narbonolide, antibacterial
agent 7438
- Streptomyces plumbeus**,
D-2-amino-5-phosphono-3-pentenoic acid 5026
antimetabolite N-1409 8325

Subject index

- Streptomyces plumbeus**(Contd),
plumbemycin A, structure 9339
plumbemycin B, structure 9339
- Streptomyces pluri-colorescens**,
soil, Rhizobium 3646
- Streptomyces pseudogriseolus**,
protease inhibitor AP-1 3247
protease inhibitor, + subtilisin 2446
- Streptomyces purpeofuscus**,
antibiotic S15-1 1401
antibiotic S15-1-A, racemomycin
A/streptothricin F 5757
antibiotic S15-1-B, racemomycin
C/streptothricin E 5757
- Streptomyces rectus**,
protease, xanthan gum clarification 3332
- Streptomyces refuineus**,
anthramycin 5716
- Streptomyces ribosidificus**,
2,5-dideoxystreptamine, 5-deoxyneamine 1442
antibiotic TM-481 626
lonomycin, structure 7435
ribostamycin 2171
- Streptomyces rimofaciens**,
destomycin B, structure 1413
- Streptomyces rimosus**,
6-deoxyparomomycins 5681
neamine, neomycin 3041
oxytetracycline 9112
paromomycin 2171
prodigiosin 8188
soil, humate 2859
soil, montmorillonite 2859
- Streptomyces roseochromogenes**,
daunorubicin reduction, antibiotic 20,798
R.P. 9457
- Streptomyces roseoflavus**,
roseofungin 4822
- Streptomyces ruber**,
volatile compounds, antifungal agent 8986
- Streptomyces saganonensis**,
herbicidin A 5742
herbicidin A, herbicide/antifungal
agent/antibacterial agent 5741
herbicidin B 5742
herbicidin B, herbicide/antifungal
agent/antibacterial agent 5741
- Streptomyces satsumaensis**,
cellulase, carboxymethylcellulose medium
3948
- Streptomyces scabies**,
potato 4996
potato, chlorogenic acid/chlorogonoplast
1975
potato, fertilizer 1941
soil 1164
- Streptomyces showdoensis**,
maleimycin 5745
- Streptomyces species 372A**,
antibiotic X-372A, antibacterial agent 1403
- Streptomyces spectabilis**,
damavaricin, streptovaricin 634
spectinomycin 1440 2171
- Streptomyces staurosporeus**,
alkaloid AM-2282, antifungal agent 9466
- Streptomyces steffisburgensis**,
enzyme, daunomycin 6634
- Streptomyces tanashiensis**,
antibiotic No. K-73 3803
medermycin 4812
- Streptomyces tenebrarius**,
apramycin 628
nebramycin 2265 4816
tobramycin 528
- Streptomyces testaceus**,
pepstatins 2445 6836
- Streptomyces thermocinereus**,
soil 2056
- Streptomyces thermoviolaceus**,
anthraquinone pigment 7432
- Streptomyces thermoviolaceus**(Contd),
dihydrogranaticin 7432
- Streptomyces tosaensis**,
amylase, maltose 15
- Streptomyces toxytricina**,
arglecin 5145
- Streptomyces toyocaensis**,
gabaculine 8429
- Streptomyces vellosus**,
lincomycin, antibacterial agent 10318
- Streptomyces venezuelae**,
chloramphenicol 8162
chloramphenicol, chloramphenicol
acetyltransferase, chloramphenicol-3-acetate
esterase 9095
10,11-dihydropicromycin 4798
soil, Phytophthora 5481
soil, Pythium 5481
sporulation pigment, medium 7681
- Streptomyces verticillus**,
3-(methylmercapto)propylaminobleomycin,
antitumour antibiotic/Mycobacterium
smegmatis 1690
bleomycin, reversed-phase high-performance
liquid chromatography 3063
phleomycins 9463
- Streptomyces violaceoniger**,
3-de-O-methyl-2,3-anhydro-lankamycin 1421
- Streptomyces violaceoruber**,
volatile compounds, antifungal agent 8986
- Streptomyces violaceus-niger**,
soil, humate 2859
soil, montmorillonite 2859
- Streptomyces violascens**,
3beta-hydroxysteroid oxidase 31
- Streptomyces viridochromogenes**,
amylase, maltose 15
enterocin 1415
enterocin, structure 6635
- Streptomyces viridoflavus**,
candihexin 630
- Streptomyces wedmorensis**,
desert soil 6411
- Streptomyces yokosukanensis**,
antibiotic H 537SY2, antifungal agent 5708
- Streptomycetes**,
black gram rhizosphere, Rhizobium 2881
green gram rhizosphere, Rhizobium 2881
milk, isolation medium 7734
sunn hemp rhizosphere, Rhizobium 2881
tree bark fermentation, fertiliser 7488
- Streptomycin**,
10258
2-deoxy-, Streptomyces griseus 1369
3-deoxydihydro-, antibacterial agent 6594
+ ampicillin, Streptococcus faecalis 7379
+ ampicillin, Streptococcus group D 5634
+ ampicillin, Streptococcus viridans 5634
+ penicillin, Brucella, L-form 5639
+ penicillin, Streptococcus group D 5634
+ penicillin, Streptococcus viridans 5634
+ phosphonomycin, antibacterial agent 6558
+ vancomycin, Streptococcus group D 5634
+ vancomycin, Streptococcus viridans 5634
Actinomycetes levoris, levorin 10306
Actinomycetes nodosus, amphotericin B 10306
antibacterial agent 3755
antibacterial agent, operating theatre 1512
antibiotic mixture, microbiological assay
2990
antibiotics 2999
Bacillus subtilis, lipids 9053
bacteria 10257
bile system microflora 2995
Bremia lactucae, lettuce 5476
chicken feed 9627 9628
curd rot, cauliflower 402
dihydro-, Escherichia coli ribosome 1320
dihydro, mastitis-causing microorganisms
2167

Subject index

Streptomycin(Contd),

dihydro-, milk, thin-layer chromatography 1722

Enterobacter aerogenes 1214

enterobacteria 9040

Epidermophyton floccosum 1295

Erwinia amylovora, apple 2028

Escherichia coli 1214 1304 3671 10257

Escherichia coli, lipids 9053

Fusarium solani 10247

ion exchange resin 609

Klebsiella pneumoniae 1214

Listeria monocytogenes 5629

Micrococcus luteus, antibiotic sensitivity testing 8112

milk, thin-layer chromatography 1722

Mycobacterium farcinicum 4648

Mycobacterium phlei 4648

Mycobacterium smegmatis 4648

Mycobacterium tuberculosis 4648

Mycobacterium tuberculosis, sensitivity testing, radiometry 9041

mycoplasma, witches' broom, *Angelonia salicariaefolia* 3500

Neisseria gonorrhoeae 2997 5527 8118

Pectobacterium carotovorum, potato post-harvest decay 6324

phytopathogenic bacteria/fungi, plant protection 7222

Phytophthora infestans, potato, phytoalexin 3525

polyanionic detergents 7389

Proteus 1304

Proteus mirabilis 1214

Pseudomonas aeruginosa 1214 1304 3748 3782 6550 10257

Pseudomonas phaseolicola, bean 6376

Pseudomonas pseudomallei 8117

Pseudomonas syringae, pear 8828

resistance, coliforms, food 4633

resistance, coliforms, R factor, sewage treatment 2305

resistance, *Erwinia amylovora*, apple/pear 2822

resistance, *Escherichia coli* 1194 3671 6474 6475 8050 8956 8957

resistance, *Escherichia coli*, antibiotics 2098

resistance, intestinal bacteria, R factor 7298

resistance, *Klebsiella* 6474

resistance, *Klebsiella pneumoniae*, R factor 8944

resistance, *Micromonospora purpurea*, gentamicin 9092

resistance, *Mycobacterium smegmatis* 6481

resistance, *Neisseria gonorrhoeae* 2099 5527

resistance, *Pasteurella haemolytica* 3747

resistance, *Pasteurella multocida* 3747

resistance, *Proteus rettgeri* 1201

resistance, *Pseudomonas aeruginosa* 3749

resistance, *Pseudomonas aeruginosa*, + heavy metals resistance 7294

resistance, *Pseudomonas aeruginosa*, beta-lactamase 2102

resistance, *Rhizobium trifolii*, subterranean clover 5493

resistance, *Salmonella* 7300 8949

resistance, *Salmonella*, chicken 7301

resistance, *Salmonella saint-paul* 6475

resistance, *Salmonella typhi* 5529

resistance, *Salmonella typhi*, antibiotics 2098

resistance, *Salmonella typhimurium* 4642

resistance, *Shigella dysenteriae* 487

resistance, *Shigella sonnei* 6480

resistance, *Staphylococcus hyicus* 9045

resistance, *Streptococcus faecalis* 8950

resistance, *Streptococcus faecalis*, R factor 10121

Streptomycin(Contd),

resistance, *Vibrio cholerae* 2100

Salmonella 1307

seed treatment, *Pseudomonas phaseolicola*, bean 406 6379

sensitivity testing, Enterobacteriaceae 10259

Staphylococcus 1304 1308

Staphylococcus aureus 1214 10257

Staphylococcus aureus L-form 3750

Staphylococcus hyicus 9045

Streptococcus 3751

Streptococcus faecalis 1214 3003

Streptococcus mutans 552

Streptomyces bikiniensis 10305

Streptomyces griseus 1369 2171 2180 2181 2224 3760 7591

Streptomyces griseus, penicillin 6592

Streptomyces griseus, rRNA 3781

Streptomyces, streptomycin-phosphorylase 6593

thiobarbituric acid assay 5680

Trichophyton mentagrophytes 1295

Trichophyton rubrum 1295

trickling filter microorganisms, sewage treatment 3862

vitamins/nicotinamide/p-aminobenzoic acid 2991

Xanthomonas malvacearum, cotton 3595

Xanthomonas nigromaculans, zinnia 340

Yersinia enterocolitica 4730

Yersinia pseudotuberculosis 4744

Streptomycin-phosphorylase,

Streptomyces, streptomycin 6593

Streptonigrin-transition metal complex,

antitumour antibiotic/antibacterial agent 9465

Streptopenicillin,

curd rot, cauliflower 402

Streptosporangium,

glycoside-hydrolase inhibitor 80

sporamycin, antitumour antibiotic 9464

sporamycin, antitumour antibiotic, antibacterial agent 6940

Streptosporangium pseudovulgare,

sporamycin, antitumour antibiotic/antibacterial agent 8420

Streptosporangium violaceochromogenes,

platomycin A/platomycin B, antibacterial agent/antitumour antibiotic 9148

Streptosporangium viridigriseum,

chloramphenicol, chloramphenicol acetyltransferase, chloramphenicol-3-acetate esterase 9095

Streptothricin,

Streptomyces lavendulae 5764

yeasts 2170

Streptothricin E,

antibiotic S15-1-B 5757

Streptothricin F,

antibiotic S15-1-A 5757

Streptovaricin,

damavaricin, *Streptomyces spectabilis*, antibacterial agent 634

Friend leukaemia virus 10265

isomers, antibacterial agent/antiviral agent 1443

Streptovaricin C,

damavaricin C, antitumour antibiotic 2526

Streptovaricins,

10264

Streptovercillium,

antibiotic LL-AM31 10344

Streptovercillium albireticuli,

kokandomycin, antifungal agent 9138

Streptovercillium mycoheptimicum,

mycoheptin 10379

Streptovercillium quilonensis,

soil 5709

soil, antibiotic K13 7256

Subject index

- Streptovercicillium roseovercicillatum**,
antibiotic K-52A 3059
- Streptovirudin**,
parainfluenza virus 10407
- Streptozotocin**,
analogues 7456
- Striatins**,
antibacterial agent/antifungal agent 9155
- Striga hermonthica**,
Cercospora 9866
Fusarium equiseti 9866
Phoma 9866
- Stripe**,
Cephalosporium gramineum, wheat 6232
Helminthosporium gramineum, barley 2689
Hymenula cerealis, wheat 290
- Stripe rust**,
Puccinia striiformis, Agropyron intermedium,
resistance 5408
Puccinia striiformis dactylidis, cock's foot
7121
Puccinia striiformis, wheat 294 5340
Puccinia striiformis, wheat, resistance 5408
- Stripe smut**,
Ustilago striiformis, Kentucky bluegrass
6211
Ustilago striiformis, Kentucky bluegrass,
resistance 6211
- Strobane-T**,
estuarine water bacteria 4884
- Stromateus canereus**,
gamma-irradiation preservation 4244 4245
- Stromatinia gladioli**,
gladiolus 4389
soil 4389
- Strontium chloride medium**,
Salmonella, egg 164
- Strontium selenite medium**,
Salmonella, egg 164
- Structure**,
beauvericin 5720
lysolipin 7436
- Strychnos noxvomica**,
Cladosporium oxysporum post-harvest decay
8761
- Stub decay**,
sugar maple 8856
- Stubborn disease**,
Spiroplasma citri, sweet orange, Leafhopper
9831
- Stunt**,
Phytophthora cryptogea, tobacco 6306
Spiroplasma, corn, culture medium 10590
10591
- Stylosanthes**,
seed, Colletotrichum gloeosporioides + fungi,
sulphuric acid scarification 5314
- Stylosanthes guyanensis**,
+ Rhizobium, nodulation/nitrogen fixation
2084 8907 9806
seed, Colletotrichum gloeosporioides + fungi,
sulphuric acid scarification 5314
- Stylosanthes humilis**,
+ Rhizobium, nodulation, nitrogen fixation
9806
- Stylosanthes scabra**,
seed, Colletotrichum gloeosporioides + fungi,
sulphuric acid scarification 5314
- Styphelia adscendens**,
Phytophthora cinnamomi 8597
- Styrene**,
antifungal agent 8991
hydroxy-, hydroxycinnamic acid degradation,
Polyporus circinatus 121
- Subamycin**,
fennel nodulation, Rhizobium 2886
fennel rhizosphere/rhizoplane fungi 2863
- Sublethal heat stress**,
Vibrio parahaemolyticus 4188
- Sublimation**,
dehydration, bacteria 2981
- Subsoiling**,
soil microorganisms 10038
- Subterranean clover red leaf virus**,
alsike clover 3461
- Subtilisin**,
+ Streptomyces pseudogriseolus protease
inhibitor 2446
Bacillus subtilis 2424 2347 9435
Bacillus subtilis, affinity chromatography,
carbobenzoxymethyl-phenylalanyl-triethylenetetra-
min 5090
Bacillus, xanthan gum classification 5111
ester synthesis 3261
- Subtilisin inhibitor**,
Streptomyces albobriseolus 4050 4051
- Subtilopeptidase**,
Bacillus subtilis, affinity chromatography,
carbobenzoxymethyl-phenylalanyl-triethylenetetra-
min 5090
Bacillus, xanthan gum classification 5111
- Subtilopeptidase A**,
Bacillus subtilis, immobilization 4056
Bacillus subtilis, structure 1628
- Succinate dehydrogenase**,
Pseudomonas aeruginosa cytoplasmic membrane
6821
Rhodospirillum rubrum 9436
- Succinic acid**,
+ chlorination + heat treatment, Salmonella
typhimurium, chicken carcass 1787
Mycobacterium, isopropanol 807
Ustilago nuda 6377
waste whey fermentation 4852
- Succinivibrio dextrinosolvens**,
urease assay 8271
- Succinyl glucoamylase**,
microbial, immobilized 3248
- Sucrase**,
Aureobasidium pullulans, paint film
degradation 4177
- Sucrose**,
antibacterial agent/antifungal agent 5593
assay, Bacillus stearothermophilus 3969
- Sucrose agar**,
brewery Lactobacillus culture medium 5170
brewery Pediococcus culture medium 5170
- Sugar**,
antibacterial agent/antifungal agent 5593
beet, iodoacetone bacteriostat 2616
cellulose degradation, Fusarium solani
cellulase 5925
cellulose denaturation, Penicillium
funiculosum cellulase 5925
cellulose degradation, Trichoderma koningii
cellulase 5925
cellulose degradation, Trichoderma viride
cellulase 5925
cellulose hydrolysis, Trichoderma viride
cellulase 3259
cellulose, microbial cellulase 6814
cellulose, Trichoderma viride cellulase 5928
fermentation, Saccharomyces carlsbergensis,
esters 6970 6971
fermentation, Saccharomyces cerevisiae,
esters 6970 6971
waste cellulose, Trichoderma viride cellulase
5929 5933 7616
- Sugar alcohol**,
antibacterial agent/antifungal agent 5593
- Sugar factory**,
wastewater treatment 2299
- Sugar industry**,
bacteria 939
sucrose assay, Bacillus stearothermophilus
3969
- Sugar-lipid**,
Pseudomonas, paraffin, activated sludge 3665

Subject index

Sugarbeet,

- Alternaria, fungicide seed treatment 2034
- beet curly top virus 6297 8730
- beet curly top virus, beet leafhopper 9891
- beet curly top virus, latex flocculation assay 10628
- beet leaf-curl virus 4364
- Beet mosaic virus 4420
- beet yellows virus 4364 4420 9892
- Cercospora beticola 1953 4364 7174 7175
- Cercospora beticola, benomyl resistance 5389 9981
- Cercospora beticola, topsin M 8823
- curly top 8731
- Erwinia 9893
- Erysiphe betae 5390
- Erysiphe betae, fungicide 7205
- Erysiphe betae/virus yellows, fungicide 7977
- Erysiphe polygoni 8731 9894
- Erysiphe polygoni, sulphur fungicide 1108
- Fusarium, fungicide seed treatment 2034
- heart-rot 4364
- iodoacetone bacteriostat 2616
- latent rosette disease, rickettsia-like organism 7173
- pathogenic fungi 4366
- pathogenic microorganism, beet bug 5388
- Peronospora farinosa 4367
- Phoma betae, fungicide seed treatment 8839
- Polymyxa betae 5391
- post-harvest decay, Botrytis cinerea, Penicillium claviforme 3544
- post-harvest decay, Phoma betae, Penicillium claviforme 3544
- powdery mildew 8732
- Pythium aphanidermatum, cercosan seed treatment 2034
- Pythium debaryanum, biological control, Pythium oligandrum 9991
- Pythium heterothallicum 6298
- Pythium sylvaticum 6298
- Pythium ultimum, biological control, Pythium oligandrum 9991
- resistance, Cercospora beticola 2788
- resistance, Rhizoctonia solani 1990
- Rhizoctonia bataticola 1084
- Rhizoctonia bataticola, fungicide seed treatment 2034
- Rhizoctonia, biological control, Penicillium 4499
- Rhizoctonia solani 1954 9895
- Rhizoctonia solani, cycloate 7969
- Rhizoctonia solani, pentachloronitrobenzene seed treatment 2034
- Rhizopus arrhizus 8733
- rizomania 4421
- Sclerotium rolfsii, BAS 3050 F 1110
- Sclerotium rolfsii, pentachloronitrobenzene seed treatment 2034
- seed, Fusarium oxysporum/Phoma betae 332
- sugarbeet virus yellows, plant protection 7201
- sugarbeet yellows virus, insecticide 365
- surface disinfection, iodophors 744
- witches' broom-like disease 331
- Sugarbeet virus yellows, sugarbeet, plant protection 7201
- Sugarbeet yellows virus, sugarbeet, insecticide 365
- Sugarcane,
- Aspergillus niger 1885
- bacterial leaf scald 6228
- Cephalosporium sacchari 4347
- Cephalosporium sacchari, aureofungin 8790
- Claviceps purpurea 3486
- Colletotrichum circinans 1885
- Colletotrichum falcatum 6229 7133
- Colletotrichum falcatum, sporulation 1001
- Curvularia 6229
- Epicoccum andropogonis 3486

Sugarcane(Contd),

- Fiji disease virus 6227
- Helminthosporium sacchari, helminthosporoside, serinol 2629
- Hyalostachybotrys sacchari 6228
- microbial disease, hot air treatment 7963
- microbial diseases, hot water treatment 4478
- Mycoplasma 5315
- Physalospora tucumanensis 6229 6230
- ratoon stunt, bacterium 7132
- ratoon stunting 2709
- resistance, Gibberella moniliformis 8771
- resistance, Physalospora tucumanensis 6230
- resistance, Ustilago scitaminea 3549
- resistance, Xanthomonas albilineans 3549
- Thielaviopsis paradoxa 1885
- Ustilago scitaminea, plant protection 5332 6336
- Ustilago scitaminea 3487
- virus disease 1869
- Sugarcane mosaic virus, corn 1867
- Eragrostis trichodes 1867
- Muhlenbergia frondosa 1867
- Muhlenbergia mexicana 1867
- Panicum virgatum 1867
- Spartina pectinata 1867
- Sporobolus asper 1867
- sugarcane, hot water treatment 4478
- Sugary disease,
- Sphacelia sorghi, sorghum, Ischaemum pilosum 8649
- Suillus granulatus, radiate pine, seed dressing fungicide 6382
- Suillus luteus, radiate pine, seed dressing fungicide 6382
- Suillus variegatus, Scots pine cytokinin/auxin 6381
- Sulbenicillin, bacterial beta-lactamase, double disc method 3288
- Pseudomonas aeruginosa phagocytosis, rabbit polymorphonuclear leukocytes 2998
- resistance, Escherichia coli, beta-lactamase, R factor 8954
- Sulfanilamidopyrazole, nitrophenyl derivatives, antibacterial agent 8070
- Sulfex, Erysiphe polygoni, pea 8812
- Sulfolobus acidocaldarius, ferric iron reduction 2901
- metal leaching 10087
- Sulfomycin I, 10408
- Sulpha-trimethoprim, Pseudomonas pseudomallei 8117
- Sulphacytine, antibacterial agent 528
- Sulphadiazine, + penicillin, Streptococcus mutans 603
- derivatives, antibacterial agent 6498
- Pseudomonas aeruginosa 10151
- resistance, Enterobacteriaceae 8945
- resistance, Shigella dysenteriae 487
- sensitivity testing, Neisseria meningitidis 4657
- Sulphadiazine-trimethoprim, antibacterial agent 2939
- Sulphadimethoxine, antibacterial agent 10149
- Sulphadimethoxine-diaveridine, antibacterial agent 10149
- Sulphadimethoxine-ormethoprim, antibacterial agent 10149
- Sulphadimethoxine-trimethoprim, antibacterial agent 10149
- Sulphadimidine, Pseudomonas aeruginosa 10151

Subject index

Sulphafurazole,

beta-haemolytic *Streptococcus* 5633
Proteus 4725

Sulphaisodimidine,

Actinomyces israelii 7369
Arachnia propionica 7369

Sulphamethazine,

pig feed, *Salmonella typhimurium* 206

Sulphamethoxazole,

+ clotrimazole, *Candida* 4670
Neisseria gonorrhoeae 2997 5527 8973
Pseudomonas aeruginosa 10151
 resistance, *Neisseria gonorrhoeae* 5527
Salmonella 8949

Sulphamethoxazole-trimethoprim,

see also Trimethoprim-sulphamethoxazole
 + bacitracin discs, *Streptococcus* group
A/Streptococcus group B 1579
 + sheep blood agar, *Streptococcus* group
A/Streptococcus group B selective medium
 10595
 antibacterial agent 528 2940 2941 4659 5526
 5550 7319 8113

antibiotics-resistant *Salmonella typhi* 7377
Bacteroides fragilis 2166
Enterobacter aerogenes 1214
Enterobacter cloacae 2993
Escherichia coli 1214 2993 7368
Haemophilus influenzae 8114
Klebsiella 7368
Klebsiella pneumoniae 1214 2993
Neisseria gonorrhoeae 2997 8118 8973
Proteus 2993 4727 7368
Proteus mirabilis 1214
Providencia 2993
Pseudomonas aeruginosa 1214 2993 4727 6550
 7368 10151

resistance, bacteria 5550
 resistance, *Escherichia coli* 6474
 resistance, *Klebsiella* 6474
 resistance, *Salmonella typhimurium* 6477
 resistance, *Streptococcus* group D 6472
Salmonella 8949
Salmonella enteritidis 2993
Serratia marcescens 2993
Staphylococcus 7368
Staphylococcus aureus 1214
Streptococcus 7368
Streptococcus faecalis 1214 3003
Streptococcus group D 7368
Yersinia enterocolitica 6551

Sulphamethoxypyrazine,

antibacterial agent 10150
Neisseria meningitidis 9042

Sulphamethoxypyrazine-trimethoprim,

antibacterial agent 10150

Sulphamide,

resistance, *Escherichia coli* 6475
 resistance, *Salmonella* 6475
 resistance, *Salmonella saint-paul* 6475
 resistance, *Staphylococcus aureus* 6475

Sulphamide + trimethoprim,

resistance, *Escherichia coli* 3669
Salmonella 3669

Sulphamoxole-trimethoprim,

antibacterial agent 498 2940

Sulphamoylquinoline-dione,

derivatives, bacteriostat 5562

Sulphanilamide,

-metal complexes, antibacterial agent 10148
 derivatives, antibacterial agent 6498
 resistance, *Salmonella typhimurium* 6477
Saccharomyces cerevisiae sporulation 8074

Sulphanilamido-oxadiazole,

derivatives, fungicide 10171

Sulphaquinoxaline,

antibacterial agent 10149
 sulphadimethoxine-trimethoprim/ormethoprim/di
 averidine 10149

Sulphaquinoxaline (Contd),

turkey feed, *Pasteurella multocida* vaccine
 204

Sulphaquinoxaline-diaveridine,

antibacterial agent 10149

Sulphaquinoxaline-ormethoprim,

antibacterial agent 10149

Sulphaquinoxaline-trimethoprim,

antibacterial agent 10149

Sulphatase,

Epidermophyton floccosum 7608

Sulphate,

alkyl-, penicillinase inhibitor, *Bacillus*
licheniformis, penicillins resistance 8953
 alkyl-, penicillinase inhibitor,
Staphylococcus, penicillins resistance 8953
 reduction, *Desulfovibrio baculatus*, manganese
 ore 5511
 wine yeast, sulphite reductase/ATP
 sulphydrylase 1703

Sulphate-reducing bacterium,

rice soil 4563
 substrates 10089

Sulphathiazole,

derivatives, antibacterial agent 6498
 resistance, *Salmonella* 6476
 sensitivity testing, *Neisseria meningitidis*
 4657
 shelf-life 9031

Sulphenamide,

thiocarbamoyl-, derivatives, bacteriostat,
 detergent 9228

Sulphenylated oxime-carbamate,

derivatives, fungicide/microbiostat 9003

Sulphenylcarbamate,

N-methyl-N-alkoxycarbonyl-, derivatives,
 fungicide/bactericide, plant protection
 3596

Sulphide,

Beggiatoa, rice rhizosphere 5473
 wine 5180

Sulphilimine,

amino acid, bacteriostat 2111

Sulphisadimidine,

antibacterial sensitivity, dip-slide 2931

Sulphisomidine,

resistance, *Salmonella typhi* 5529

Sulphisoazole,

Chlamydia trachomatis 10242
 sensitivity testing, *Neisseria meningitidis*
 4657

Sulphite,

wine 5180
 wine yeast, sulphite reductase/ATP
 sulphurylase 1703

Sulphite reductase,

wine yeast, sulphite 1703

Sulphite waste liquor,

+ ethanol, yeasts 9322

Sulphohydrolase,

Comamonas terrigena, alkylsulphate detergent
 degradation 6479
Pseudomonas, alkylsulphate detergent
 degradation 6479

Sulphonamide,

antibacterial agent 6546 8972
 derivatives, antibacterial
 agent/*Staphylococcus aureus* 6528
Escherichia coli 7368
 N-fluoro-, antibacterial agent 2147
 food, assay, *Bacillus*
stearothermophilus/*Bacillus*
megaterium/*Micrococcus luteus* 5198
Klebsiella 7368
 mercurated, bactericide 1262
 mercurated, fungicide, plant protection 1262
 milk 142
 N-acyl-aryl, fungicide 2957
Neisseria meningitidis 4724
Proteus 7368

Subject index

Sulphonamide(Contd),

- Pseudomonas aeruginosa* 7368
- resistance, coliforms, food 4633
- resistance, *Escherichia coli* 6474
- resistance, intestinal bacteria, R factor 7298
- resistance, *Klebsiella* 6474
- resistance, *Neisseria meningitidis* 4724
- resistance, *Salmonella typhimurium* 4642
- resistance, *Shigella* 10120
- sensitivity testing 6497
- sensitivity testing, *Neisseria meningitidis* 4657
- Staphylococcus* 7368
- Streptococcus* 7368
- Streptococcus* group D 7368

Sulphonamide pyrazole,

- derivatives, antibacterial agent 6500

Sulphonamide-trimethoprim,

- Neisseria meningitidis* 4724

Sulphonamides,

- Vibrio cholerae*, antibiotic sensitivity testing 9046

Sulphonate,

- alkylaryl-, penicillinase inhibitor, *Bacillus licheniformis*, penicillins resistance 8953
- alkylaryl-, penicillinase inhibitor, *Staphylococcus*, penicillins resistance 8953
- alkylbenzene-, degradation, *Bacillus* 4167
- diaryl, fungicide 2957
- dihalo-, derivatives, antibacterial agent/antifungal agent 7979
- dihalo-, derivatives, fungicide, plant protection 7979

Sulphone,

- acetylenic, fungicide 512 2951
- s-triazinyl aryl/alkyl derivatives, antibacterial activity 1215

Sulphonic acid,

- esters, bactericide/fungicide 3724

Sulphonylamino acid,

- derivatives, antibacterial agent 6499

Sulphonylhydrazide,

- derivatives, antibacterial agent 5557

Sulphur,

- Alternaria cucumerina*, squash 382
- Cercospora sorghi*, *Sorghum bicolor* 7973
- Erysiphe betae*, sugarbeet 7205
- Erysiphe polygoni*, pea 8812
- Erysiphe polygoni*, sugarbeet 1108
- Gloeocercospora sorghi*, *Sorghum bicolor* 7973
- isotope, fractionation, *Ectothiorhodospira shaposhnikovii* 2904
- oxidation, 7-methylthioxanthone-2-carboxylic acid, *Calonectria decora*/*Aspergillus niger*/*Streptomyces armentosus* 9483
- oxidation, *Thiobacillus* 5512
- oxidation, *Thiobacillus thiooxidans*, pyruvate 5513
- reduction, *Spirillum* 6458
- selenium, sewage *Penicillium*, dimethylselenide 4144
- selenium, soil *Fusarium*, dimethylselenide 4144

- Sphaerotheca fuliginea*, cucurbit 4491

Sulphur bacterium,

- drip irrigation system 716

Sulphur compound,

- antibacterial agent/antifungal agent 3723
- Cheddar cheese, flavour 1738

Sulphur cycle,

- soil 2855

Sulphur dioxide,

- air pollution, lichen/*Rhytisma acerinum* indicator 4985
- Byssochlamys nivea* 4252
- Byssochlamys nivea* spores, food 3423
- food preservative, potentiometric sensing probe 5251
- fruit juice preservation 6811

Sulphur dioxide(Contd),

- grape post-harvest decay 4437 5399
- patulin, apple juice/cider 7829
- preservation, gelatinized potato pieces 969
- transformation, soil microorganisms 1161

Sulphur dust,

- Erysiphe cichoracearum*, potato 4493

Sulphur-iron protein, molybdenum-containing,

- Desulphovibrio gigas* 2442

Sulphurdiazine-trimethoprim,

- fish feed 7038

Sulphuric acid,

- Mycobacterium* 6967

Sulphuric acid scarification,

- Stylosanthes* seed, *Colletotrichum gloeosporioides* + fungi 5314

Sulfat,

- Erysiphe cichoracearum*, potato 4493

Sunflower,

- Alternaria* 9943
- Alternaria helianthi* 6299
- Botrytis cinerea* 8734 9943
- fungal diseases 333
- fungal root rot 8734
- Fusarium* 9943
- Fusarium oxysporum* 6300
- Leptosphaeria doliiolium* 6301
- Leptosphaerulina trifoli* 6301
- Macrophomina phaseolina* 4422
- Phoma exigua* 6302
- phyllody, mycoplasma-like organism 1955
- Plasmopara halstedii* 8734 9943
- Pseudomonas syringae* 1956
- Puccinia helianthi* 8734 9896
- resistance, *Plasmopara halstedii* 6344
- Rhizopus* 8734
- Rhizopus nigricans* 9943
- Sclerotinia sclerotiorum* 8734
- Sclerotinia libertiana* 9943
- Sclerotium bataticola* 9943
- seed, fungi 1957
- seed husks, microbial protein 8340
- Septoria helianthi* 9943
- Verticillium* 9943
- Verticillium dahliae* 6303 8734

Sunnheep,

- + *Rhizobium*, nodulation, nitrogen fixation 7275
- Pringsheimia* 1082
- Rhizobium*, rhizosphere streptomycetes 2881
- rhizosphere microorganisms, root exudates 3627
- rhizosphere, *Xanthomonas malvacearum*/*Pseudomonas solanacearum*/*Fusarium moniliforme*/*Helminthosporium sativum* 2856
- Stachybotrys atra* 2759
- sunnheep mosaic virus 3530

Sunnheep mosaic virus,

- sunnheep 3530

Supren,

- Endothia parasitica*, cheese 8494

Superoxide dismutase,

- Bacillus stearotherophilus* 3322
- Bacteroides distasonis* 5044
- Desulfovibrio desulfuricans* 8397
- Mycobacterium tuberculosis* 7664
- Thermus aquaticus* 7665

Supersonic aircraft fuel,

- Aspergillus fumigatus* 4618

Superstart culture,

- Streptococcus cremoris*, cheese 6053
- Streptococcus lactis*, cheese 6053

Supracids,

- soil ammonification/nitrification 2895

Surface,

- bacteriological examination, foam rubber pad 10533
- Shigella sonnei*, indirect haemagglutination 8285

Subject index

- Surface-active agent,**
 - non-ionic, microbial degradation, river water 4175
- Surface colony counting,**
 - 7538
- Surface disinfection,**
 - sugarbeet, iodophors 744
- Surface sampling,**
 - contact plate method/swab method, meat industry 7521
- Surfactant,**
 - aminimide derivatives, antibacterial agent/antifungal agent 10197
 - anionic, + clotrimazole, *Candida albicans* 10174
 - ionic, + framycin, potentiometry 10309
 - low-foaming non-ionic antimicrobial agent, sanitizer 4890
 - non-ionic, + clotrimazole, *Candida albicans* 10174
 - non-ionic, degradation, activated sludge bacteria 1709 1710
 - non-ionic, + framycin, potentiometry 10309
 - non-ionic, microbial degradation, activated sludge, polyester fibre industry waste 3861
 - non-ionic, polyethoxyalkyl phenols, *Staphylococcus aureus* 10154
 - non-ionic, polyethoxyalkyl phenols, *Staphylococcus aureus*, optical density 10155
 - polyethoxylate non-ionic, microbial degradation 115
 - polyethoxylate non-ionic, microbial degradation, assay 7710
- Surgeon's glove,**
 - oral surgery 3919
- Surgery,**
 - hygiene 6734
 - oral, surgeon's glove 3919
- Surgical article,**
 - sterile, package 1290
- Surgical clothing,**
 - bacteria, operating room 732
- Surgical drape,**
 - 1513
- Surgical face mask,**
 - 9231
- Surgical glove,**
 - hygiene 1514
- Surgical gown,**
 - bacteria, operating room 732
 - belt closure 8250
- Surgical hand,**
 - disinfection, Remanex 3920
- Surgical mask,**
 - 1515
- Surgical package,**
 - sterile 546 547
- Surgical scrub,**
 - antibacterial agent 1517
- Surgical Simplex P Radiopaque bone cement,**
 - erythromycin + colistin, antibacterial agent 3011
- Surugatoxin,**
 - bacterium 8587
- Suspension,**
 - microorganisms 10527
- Suspension culture,**
 - microorganisms 5819
- Swab method,**
 - Enterobacteriaceae, chicken carcass 7011
 - surface sampling, meat industry 7521
- Swasecofix-DT 50,**
 - antifungal agent, plant protection 386
- Swasecofix-E 45,**
 - antifungal agent, plant protection 386
- Sweet potato,**
 - abaca mosaic virus 5293
 - Ceratocystis fimbriata* 7177
 - Erwinia* 8735
- Sweet potato(Contd),**
 - Erwinia chrysanthemi* 7176
 - feathery mottle virus 4423
 - fungal lung-toxic furans 7827
 - Fusarium oxysporum* 2760
 - Fusarium oxysporum*, benomyl/thiabendazole 6373
 - post-harvest decay, *Lasiodiplodia theobromae*, cellulolytic/pectic enzymes 353
 - resistance, *Fusarium oxysporum* 8777
- Sweetfern blister rust,**
 - Cronartium comptoniae*, loblolly pine 8002
- Swietenia mahagoni,**
 - Fomes durissimus* 2849
 - Fomes durissimus*, culture 2042
- Swimming pool water,**
 - antibacterial agent/antifungal agent, epsilon-caprolactam + alkanediamines 2318
 - antibacterial agent, quaternary ammonium compound 3890
 - antibacterial agent, quaternary ammonium compounds 2319
 - bactericide/fungicide, isothiazole derivatives 1268
 - chlorination, sodium dichloroisocyanurate dihydrate tablet 2332
 - chlorinator 8241
 - coliiform 3899
 - disinfection 10480
 - disinfection, chlorine + halogen salt 7500
 - Escherichia coli* 3899
 - fungi 7501
 - microorganisms/hygiene 3143
 - Mycobacterium marinum*, chlorine resistance 2331
 - Staphylococcus* 3899
 - Streptococcus* 3899
- Swine,**
 - see also Pig
 - faeces, anaerobic bacteria, culture/isolation/identification medium 4938
 - transmissible gastroenteritis virus vaccine 3092
 - waste, fermentation, swine feed 3872
- Swine dysentery,**
 - lincomycin + spectinomycin/tylosin + sodium arsanilate feed 954
- Swine fever virus,**
 - canned ham, pasteurisation 4240
- Swine fever virus vaccine,**
 - 3838
- Swine house,**
 - air, bacteria 2289
- Swine influenza virus,**
 - molecular filtration, swine influenza virus vaccine 4846
- Swine influenza virus vaccine,**
 - 4846
- Swine unit,**
 - housed, air, *Staphylococcus/Salmonella* 1525
- Swiss chard,**
 - Pseudomonas phaseolicola* toxin 3449
- Switchgrass,**
 - nitrogen fixation, nitrogenase 4597
- Sycamore,**
 - Gnomonia platani*, benomyl 10008
- Symbiosis,**
 - see also Nitrogen fixation 5376
- Syncephalastrum racemosum,**
 - oil palm kernels 4220
- Syncephalis californica,**
 - Rhizopus oryzae* biological control, soil 8885
- Syncephalis indica,**
 - soil 1168
- Synchronous culture,**
 - Escherichia coli* 3975
 - microorganisms 10517

Subject index

Synchronous culture (Contd),

Streptomyces griseoviridis spores 7577

Synchytrium aureum,

sowthistle 7105

Synchytrium endobioticum,

potato 7932

potato, resistance 3559 3560

potato, resistance, Glynne-Lemmerzahl method 328

tomato 8743

Synergy,

antibacterial agent, microdilution transfer plate technique 5627

antifungal agent, microdilution transfer plate technique 5627

Syphilis,

see also *Treponema pallidum*

Readin Screen test 1585 1586

Syringa,

Microsphaeria alni 8704

resistance, *Microsphaeria alni* 8704

Syringa vulgaris,

Microsphaeria alni, benomyl 10008

Syringe,

sterile, packaged, quality control 7362

Syringe inoculator agar plates,

7535

Syringe-stabilizer unit,

chicken embryo intravascular inoculation 1604

Syringic acid,

degradation, *Rhizobium* 6021

Syringodium,

rhizosphere, nitrogen fixation 3644

Syringomycin,

Pseudomonas syringae, cowpea 7864

Pseudomonas syringae, maize 7864

Syrup,

fruit, *Erysoschlamys nivea* 6092

fruit, yeasts 5239

Syzgium cumini,

bark extract, watermelon mosaic virus, marrow 5434

Syzgium fruticosum,

Berkleasium conglobatum 4538

Sporidesmium vagum 4538

2,4,5-T,

estuarine water bacteria 4884

fungicide, fruit/vegetable post-harvest decay 1965

T-2 tetraol,

Fusarium 2619

T-2 Toxin,

see also *Trichothecene*

animal feed 972

animal, mycotoxins 3427

chicken feed 7836 7837 7838

food, field desorption mass spectrometry 7816

Fusarium 2619

Fusarium oxysporum, safflower seeds 7839

Fusarium poae 1811 7075

Fusarium roseum, chicken feed 7836

Fusarium solani 3439

Fusarium sporotrichioides 1811 7075

Fusarium sporotrichioides, goose feed 3429

Fusarium tricinctum, chicken feed 7836

milk, mass fragmentography 989

protein synthesis 3434

Tabernaemontana coronaria,

Phyllosticta helleborella 1836

Puccinia encleriana 997

Tablet,

yeast + vitamin 206

Tafasan,

Alternaria cucumerina, squash 362

Tagetes patula,

Cercospora tagetis 999

Taiwapyrone,

Cercospora 7626

Takadiastase,

Aspergillus oryzae, sake 7702

Take-all,

Fusarium, wheat 4315

Gaeumannomyces graminis, barley, resistance 355 356

Gaeumannomyces graminis, Triticeae, resistance 355

Gaeumannomyces graminis tritici, wheat, biological control, *Phialophora radicola* 370

Gaeumannomyces graminis tritici, wheat, biological control, soil 369

Gaeumannomyces graminis tritici, wheat, soil fumigation 458

Gaeumannomyces graminis, wheat 9807

Gaeumannomyces graminis, wheat, biological control, soil microflora 368

Opiticolus graminis, wheat 4315

Talaromyces duponti,

Agaricus bisporus culture 9602

enzymes 9350

Talaromyces emersonii,

enzymes 9350

maple chip piles 421

Talaromyces thermophilus,

enzymes 9350

stored rapeseed 6326

Talc,

+ Celite, poliovirus, sewage 3109

Tamarack,

Polyporus tomentosus 1125

Tamarindus indica,

bark extract, watermelon mosaic virus, marrow 5434

seed, *Aspergillus flavus* 1832

Tamarix,

Inonotus tamaricis 9996

Tan spot,

Drechslera tritici-repentis, wheat 4350

Tangelo,

mycoplasma diseases 8662

virus diseases 3494 8662

Tangential flow filtration,

bacteria, aseptic harvesting 3176

Tangerine,

Alternaria citri 303

Colletotrichum gloeosporioides post-harvest decay 7193

Colletotrichum gloeosporioides post-harvest decay, ethylene 5401

Tannase,

Aspergillus niger 5098

Aspergillus, tea concentrate/powder 943

Tannery,

effluent, treatment 10449

Tannery wastewater,

chromium, activated sludge treatment 9187

Tannic acid,

Trichoderma lignorum 6508

Tannin,

condensed, degradation, *Penicillium adametzi* 3372

Tape ketan,

Indonesian, fermentation, *Asylomyces rouxii* + yeast 8452

Tapered fluidized bed,

continuous bioreactor 3153

Taphrina deformans,

fungicide 2795 2796

peach 302

peach, resistance 8774

Tar,

antifungal agent 507 508

Subject index

- Taramindus indica,**
antibacterial agent/antifungal agent 6523
- Target spot,**
Alternaria solani, tomato, plant protection 5392
Corynespora cassiicola, cowpea, resistance 7194
- Taro,**
dasheen mosaic virus 334
Phytophthora colocasiae 8736
virus diseases 8474
- Tartaric acid,**
Cladosporium resinae, alkane 5520
Pseudomonas syringae, pear 8826
- D-tartaric acid,**
Achromobacter acinus 5892
Achromobacter epoxilyticus 5892
Achromobacter sericatus 5892
Achromobacter tartarogenes 5892
Alcaligenes epoxilyticus 5892
Alcaligenes margaritae 5892
bacterial D-tartrate epoxidase 813
microbial 9501
- D-tartrate epoxidase,**
Achromobacter acinus, D-tartaric acid 813 5892
Achromobacter epoxilyticus, D-tartaric acid 5892
Achromobacter sericatus, D-tartaric acid 5892
Achromobacter tartarogenes, D-tartaric acid 5892
Achromobacter tarterogenes, D-tartaric acid 813
Alcaligenes epoxilyticus, D-tartaric acid 813 5892
Alcaligenes margaritae, D-tartaric acid 813 5892
- Taurocholate,**
deconjugation, *Lactobacillus* 4169
- Taurolin,**
antibacterial agent 4667
- Tavromycetin,**
+ ultraviolet radiation/mitomycin c, bactericide 5747
- Taxus canadensis,**
extracts, antibacterial agent 10141
- Tea,**
concentrate/powder, *Aspergillus* tannase 943
Exobasidium vexans, BAS 3050 F 1109
Exobasidium vexans, electron microscopy 3531
- Teak,**
Rigidoporus lignosus, plant protection 1158
- Tear solution,**
hydroxypropyl methylcellulose, antibiotics 4712
- Teat dip,**
antibacterial agent 5808
chlorhexidine/iodophor/quaternary ammonium compound/hypochlorite teat dip, cattle mastitis 3922
disinfectant 1522
disinfection 10496
iodophor, iodine, milk 8475 8476
mastitis 734
mastitis, cattle 736
Mycoplasma agalactiae, cattle 735
- Tecomella undulata,**
Phyllosticta helleborella 1836
- Tecto,**
grape post-harvest decay 4437
- Tectonia grandis,**
Rigidoporus lignosus, plant protection 1158
- Teepol,**
antifungal agent, plant protection 386
- Teichoicase,**
Bacillus circulans, *Staphylococcus aureus*
N-acetylglucosaminyl ribitol teichoic acid degradation 864
- Tellurate,**
resistance, *Escherichia coli*, plasmid 3668
resistance, *Pseudomonas aeruginosa*, plasmid 3668
- Tellurite,**
resistance, *Escherichia coli*, plasmid 3668
resistance, *Pseudomonas aeruginosa*, plasmid 3668
- Telomycin,**
structure 4612
- Telone,**
Plasmodiophora brassicae, cabbage 6358
- Telone C,**
Verticillium, potato 8720
- Temik,**
nitrogen fixation, *Rhizobium* + broad bean 6443
- Tempeh,**
4190
food 4191
Rhizopus oligosporus 940
soybean fermentation, *Rhizopus oligosporus*, phytase, phytate 9598
- Temperature,**
Aspergillus flavus, aflatoxins 7057
Aspergillus parasiticus, aflatoxins 7057
Pseudoperonospora cubensis, cucumber 9860
soil, *Puccinia carthami*, safflower 9889
soil, tomato, resistance, *Pseudomonas solanacearum* 9947
- Template,**
immunofluorescence 10510
- Template-swab method,**
bacteriological sampling, poultry carcass 167
- Tensile strength,**
oxytetracycline formulations 7422
- Tentoxin,**
Alternaria alternata, plants, resistance 9721
- Teosinte,**
Pseudomonas rubrilineans 1886
- Tephrocye,**
Scots pine leaf litter, urea/urine 2035
- Terephthalic acid,**
degradation, soil bacteria 2057
soil bacteria 10049
- Terizidone,**
antibacterial agent 650 5555
- Termatin,**
Didymocladium ternatum 9156
- Terminal riboadenylate transferase,**
Escherichia coli 4108
- Terminalia belerica,**
antibacterial agent/antifungal agent 6523
- Termite,**
bacteria, mesquite 822
- Termitomyces eurhizus,**
food 3409
mushroom 9601
protein amino acids 5236
- Terpene,**
(-)-menthone, degradation, *Pseudomonas putida* 7708
microbial 1695
oxidation, *Arthrobacter* 6984
- Terpenoid,**
Acrostalagmus, LL-Z1271alpha 5156
Fusarium nivale, wheat 9962
Septoria nodorum, wheat 9962
- Terphenyllin,**
Aspergillus candidus 239
deoxy-, *Aspergillus candidus* 239
- alpha-Terpineol,**
degradation, *Pseudomonas aeruginosa* 2556
- Terpinolene,**
alpha-terpineol degradation, *Pseudomonas aeruginosa* 2556

Subject index

- Terra-Coat L-21,**
seed treatment, *Rhizoctonia solani*, cotton 8836
- Terraclor,**
see also Pentachloronitrobenzene
- Terraclor 75 WP,**
Sclerotium rolfsii, iris 9967
- Terracoat L205,**
seed dressing, *Rhizobium*, cowpea 2029
- Terramycin,**
see also Oxytetracycline
curd rot, cauliflower 402
Fusarium solani 10247
mycoplasma-like organism, Little leaf disease, eggplant 5372
mycoplasma-like organism, sandal spike, sandal 5464
pear decline, pressure machine, tree injection 7996
- Terrilytin,**
Aspergillus terricola, immobilisation 8398
- Teschen virus,**
disinfectants 1241
- Test,**
agar plate, *Staphylococcus*
biologically-active products 2417
phosphatase, *Mycobacterium* 3180
sheath inoculation, rice, *Pyricularia oryzae* 2706
thermonuclease, *Staphylococcus aureus*, food 2561
- Test kit,**
air bacterial contamination 3937
- Tetanus,**
see also *Clostridium tetani*
- Tetanus toxin,**
1813
Clostridium tetani 2654
human immunoglobulin antitoxin 3834 3835
molecular weight 7842
toxoid 7847
- Tetanus vaccine,**
3833
- M-Tetrachloroethyl-thio-4-cyclohexene-1,2-dicarboximide,**
Peronospora destructor, onion 8709
- Tetrachloroisophthalonitrile,**
phytopathogenic bacteria/fungi, plant protection 7222
- Tetrachlorotetrahydrothiophene-1,1-dioxide,**
slimicide, industrial water system 3124
- Tetracadium setigerum,**
gentian 307
strawberry 307
- Tetracoccus soyae,**
halotolerance 5522
- Tetracycline,**
7313 7419
7-methoxy-6-thia-, antibacterial agent 10330
+ amikacin 4794
+ penicillin, *Brucella*, L-form 5639
Actinomyces aureofaciens 1378 1379 3051 3052
4781 4782 7417 10328
Actinomyces israelii 7369
alpha-6-deoxy-, derivatives, antibacterial agent 10329
alpha-6-deoxyoxy-, structure 6614
alpha-haemolytic *Streptococcus* 4728
anaerobic bacteria 2994
anaerobic bacteria, antibiotic sensitivity testing 2165
animal bones 165
antibacterial agent 2969 5525 6546 7419
antibacterial agent, antibiotic sensitivity testing 9035
antibacterial agent, calorimetry 5699
antibacterial agent, membrane filter, beer yeast 1702
antibacterial agent/resistance 1302
- Tetracycline(Contd),**
antibiotic mixture, microbiological assay 2990
antibiotic sensitivity testing 5625
antibiotics 2999
antimycoplasma agent, plant disease 5295
Arachnia propionica 7369
assay, *Bacillus stearothermophilus* 4719
assay, *Bacillus stearothermophilus/Bacillus cereus* 9033
Sacillus subtilis, DNA 5698
Bacteroides fragilis 2166 2996
beta-haemolytic *Streptococcus* 5633
bile system microflora 2995
Botrytis cinerea 4669
Brucella 7420 7420
chicken feed, bacterial resistance 9630
Chlamydia trachomatis 10242
chlor-, animal bones 165
chlor-, pig feed, *Salmonella typhimurium* 206
citrus greening 9986
Clostridium perfringens 7371
Colletotrichum gloeosporioides, guava post-harvest decay 346
curd rot, cauliflower 402
cycloheptatrienyl-, antibacterial agent 2235
cycloheptyl-, antibacterial agent 2235
derivatives, antibacterial agent 622
enterobacteria 9040
Enterobacteriaceae 6565
Escherichia coli 1304 3054 3671 7313 8172
Escherichia coli antibiotics resistance, R factor 6490
Escherichia coli, DNA 5698
Escherichia coli, microcalorimetry 2233
Escherichia coli, resistance 7313
fluorimetry 4783
Haemophilus influenzae 8114
Haemophilus influenzae, resistance 8114
Haemophilus parainfluenzae 8115
hop crinkle disease 7221
iodine-131 labelled 6613
Kainkope disease, coconut palm 2821
Klebsiella 7313
Klebsiella, resistance 7311
Listeria monocytogenes 5629
melanin 1303
membrane filtration 9108
milk, thin-layer chromatography 1722
mycoplasma-like organism, plant protection 5436
mycoplasma-like organism, purple top roll disease, potato 5386
mycoplasma-like organism, witches' broom, dogwood 1928
mycoplasma-like organism, witches' broom, *Mirabilis jalapa* 5379
mycoplasma, little leaf, brinjal 8829
mycoplasma, witches' broom, *Angelonia salicariaefolia* 3500 3501
Neisseria gonorrhoeae 2997 8118
Neisseria meningitidis 4724
oat seed treatment 10236
oxy-, coconut fruit, lethal yellowing disease 403
oxy-, curd rot, cauliflower 402
oxy-, structure 6615
Pasteurella multocida 6548
pea leaf roll virus, legumes 2667
photosensitized oxidation 7418
polarography 3053 3053
Propionibacterium acnes 5630
Proteus 1304 7313
Proteus, resistance 7313
Pseudomonas aeruginosa 1304 2926 3748 6550
Pseudomonas pseudomallei 8117
quality control 5697
radiation sterilisation 6610
resistance, bacteria 1199 4721 5525 5542
resistance, *Bacteroides* 5540

Subject index

Tetracycline (Contd),

resistance, coliforms, R factor, sewage treatment 2305
 resistance, *Diplococcus pneumoniae* 4631 4647
 resistance, enteric bacteria 10130
 resistance, *Escherichia coli* 3671 5542 6474 6475 8050 10130
 resistance, *Escherichia coli*, lipid 7314
 resistance, *Haemophilus influenzae* 6487
 resistance, *Haemophilus influenzae*, R factor 10118
 resistance, *Haemophilus parainfluenzae* 8115
 resistance, intestinal bacteria, R factor 7298
 resistance, *Klebsiella* 6474
 resistance, *Klebsiella*, doxycycline 7313
 resistance, *Klebsiella pneumoniae*, R factor 8944
 resistance, *Neisseria gonorrhoeae* 2099
 resistance, *Pasteurella haemolytica* 3747
 resistance, *Pasteurella multocida* 3747
 resistance, *Proteus* 10130
 resistance, *Pseudomonas aeruginosa*, + heavy metals resistance 7294
 resistance, *Rhizobium* 2924
 resistance, *Salmonella* 6475 7300 8948 8949
 resistance, *Salmonella*, chicken 7301
 resistance, *Salmonella saint-paul* 6475
 resistance, *Salmonella typhi* 5529
 resistance, *Salmonella typhimurium* 4642 6477
 resistance, *Shigella* 10120
 resistance, *Shigella dysenteriae* 487
 resistance, *Staphylococcus* 4637
 resistance, *Staphylococcus aureus* 6475 7302 8963
 resistance, *Staphylococcus hyicus* 9045
 resistance, *Streptococcus* 4631
 resistance, *Streptococcus agalactiae*, R factor 3672
 resistance, *Streptococcus faecalis* 8950
 resistance, *Streptococcus* group A 4646 4647
 resistance, *Streptococcus* group B 3194
 resistance, *Streptococcus* group D, R factor 8962
 resistance, *Vibrio cholerae* 2100
 resistance, *Vibrio cholerae*, isolation medium 1209
Rhodopseudomonas sphaeroides 6612
Rickettsia prowazekii 5878
Salmonella 1307
 sensitivity testing, anaerobic bacteria 10232
 sensitivity testing, anaerobic bacteria, Wilkins-Chalgren medium 10229
 shelf-life 9031
Staphylococcus 1304 1308
Staphylococcus aureus 2105 7313
Staphylococcus aureus/Escherichia coli 621
Staphylococcus aureus L-form 3750
Staphylococcus aureus, resistance 2105 7313
Staphylococcus epidermidis 2234
Staphylococcus hyicus 9045
Streptococcus faecalis 3003
Streptococcus group D 7313
Streptococcus group D, resistance 7313
Streptococcus mutans 552
 tablets/capsules, dissolution 6611
 trickling filter microorganisms, sewage treatment 3862
Ureaplasma urealyticum 5626
Vibrio cholerae 4729
Vibrio cholerae, antibiotic sensitivity testing 9046
 vitamins/nicotinamide/p-aminobenzoic acid 2991
 witches' broom disease, jujube 315
Yersinia enterocolitica 4730

Tetracyclines,

Enterobacter cloacae 2993
Escherichia coli 2993

Tetracyclines (Contd),

Klebsiella pneumoniae 2993
Proteus 2993
Providencia 2993
Pseudomonas aeruginosa 2993
Salmonella enteritidis 2993
Serratia marcescens 2993
Tetrad analysis,
Basidiomycetes 10615
Tetradecane,
 oxidation, *Candida*, citric acid 10103
Tetradecanol,
 antiviral agent 5585
Tetragonia expansa,
 bean common mosaic virus 6177
Tetrahydro-cyclopropa(b)naphthalene,
 tetrahydro, antibacterial agent/antifungal agent 4692
Tetrahydro-1,3,5-thiadiazine-2-thione,
 derivatives, fungistat 1236
Tetrahydrocannabinol,
 hydroxylation, *Pellicularia filamentosa* 4146
 hydroxylation, *Streptomyces lavendulae* 4146
 microbial transformation 8427
Tetrahydrocarbazole,
 derivatives, antibacterial agent 10162
Tetrahydrofuranly bromoacetate,
 derivatives, antibacterial agent/antifungal agent 533
3,4,5,7-Tetrahydroxy-8-methoxyisoflavone,
Aspergillus niger 4147
Streptomyces neyagawaensis 4147
Tetraispentylammonium bromide,
Agrobacterium tumefaciens, *Prunus* 401
Tetralin,
 degradation, marine bacteria 480
4,4,10,10-Tetramethyl-spiro-[5,5]-undecane-2,8-dione,
 hydroxylation, *Aspergillus niger* 888
Tetramethylene bis(methanethiosulphonate),
 antibacterial agent/antifungal agent 4690
Tetramethylthiuram disulphide,
 soil microorganisms 4611
Tetramic acid,
 derivatives, magnesidin-related, antibacterial agent 8976
Tetramycin,
 mass spectroscopy 7364
d-Tetrandrine,
Streptomyces griseus, N(2)-nor-d-tetrandrine 77
N(2)-nor-d-Tetrandrine,
 d-tetrandrine dealkylation, *Streptomyces griseus* 77
Tetratheca ciliata,
Phytophthora cinnamomi 8597
Tetratheca pilosa,
Phytophthora cinnamomi 8596
Tetrathionate,
 oxidation, *Thiobacillus denitrificans*, ion-sensitive electrode 6457
Tetrazolium chloride,
 bacterial count, water, sediment 7536
 soil dehydrogenase 7248
Tetrazolium reduction test,
Mycoplasma pneumoniae 3213
Tetrazolo-pyrimidine,
 derivatives, fungicide, plant protection 3584
Tetrin A,
 cyclic hemiketals, carbon-13 nuclear magnetic resonance spectroscopy 6567
 mass spectroscopy 7364
Tetrin A4,
 hemiketal structure 5703
Tetrin B,
 cyclic hemiketals, carbon-13 nuclear magnetic resonance spectroscopy 6567
 mass spectroscopy 7364

Subject index

Textile,

- antibacterial agent, benzotriazine-1,4-dioxide derivatives 2091
- antimicrobial agent, N,N-dibutyl-9(10)dibutylphosphonooctadecanamide 2906
- bacteriostat/bactericide/fungistat 1256
- fungicide, 1,2-dithiol-3-thione derivatives 8077
- preservative 1254
- preservative, chlorinated phenols monochloracetate esters 4614

Thalassia,

- rhizosphere, nitrogen fixation 3644

Thalictrum rugosum,

- alkaloid, antibacterial agent/antifungal agent 2144

Thalifendine,

- antibacterial agent/antifungal agent 2144

Thaliglucione,

- antibacterial agent/antifungal agent 2144

Thallium,

- Bacillus megaterium 4689
- Escherichia coli 4689
- radioisotope, enrichment, Spicaria violacea 4987
- Saccharomyces cerevisiae 4689

Thallous sulphide paper,

- replica plating, Thiobacillus thiooxidans 2389
- replica plating, Thiobacillus thioparus 2389

Thalphenine,

- antibacterial agent/antifungal agent 2144

Thamnidium elegans,

- enzymes, food 134

Thanatephorus cucumeris,

- jute 8702
- rice 8642
- sclerotia, soil 3640
- soybean 6196

Thanatephorus cucumeris,

- see also Rhizoctonia solani

Thea sinensis,

- Exobasidium vexans 1109
- Exobasidium vexans, electron microscopy 3531

Theobroma cacao,

- beans, fungi 4219
- Botryodiplodia theobromae 3506
- cacao 1050
- cocoa swollen shoot virus 2731 4380
- Crinipellis perniciosa, plant protection 7144
- Macrophoma 3506
- Monilia royeri, plant protection 7144
- Phytophthora palmivora 2731 3506
- Phytophthora palmivora, copper compound 6362
- Phytophthora palmivora, fungicide 6359
- Phytophthora palmivora, soil 10055
- Phytophthora, plant protection 8784
- post-harvest decay, Aspergillus tamarii 2765
- post-harvest decay, Aspergillus tamarii, cellulase 2766
- resistance, cocoa swollen shoot virus 6340
- resistance, Phytophthora palmivora 359

Theophylline,

- derivatives, antiviral agent 8091
- Staphylococcus aureus 10160

Theoretical colonization index,

- soil fungistasis 2862

Thermal death time pouch,

- food microorganisms, heat resistance 3397

Thermalog TM,

- steam steriliser 1275

Thermistor,

- immobilised microorganisms 9318

Thermoactinomyces,

- protein, cellulose waste, animal protein 3242
- soil, aldrin degradation, exo-dieldrin 10074

Thermoactinomyces celluloseae,

- cellulose/lignocellulose degradation, protein 9345

Thermoactinomyces vulgaris,

- ground soice 4262
- mouldy hay, sedimentation chamber 3163
- yeast cell wall lytic enzyme 32

Thermoascus aurantiacus,

- coal mine soil 2062 5479
- enzymes 9350

- maple chip piles 421

Thermoascus crustaceus,

- wood chips 10023

Thermobacterium cereale,

- proteolytic malt 1698

Thermocin,

- Bacillus stearothermophilus 4041

Thermodynamics,

- microbial culture 8265

Thermogenesis,

- Candida albicans, levorin/decamethoxin 2971
- Staphylococcus aureus, levorin/decamethoxin 2971

Thermogram,

- Klebsiella aerogenes culture, flow microcalorimetry 7563

Thermolysin,

- Bacillus thermoproteolyticus 9437
- bacterial, thermostability 9351

Thermomonospora viridis,

- amylase 4067
- protease 4067

Thermomonospora vulgaris,

- alpha-amylase 8355
- soil 2056

Thermomyces lanuginosus,

- coal mine soil 2062 5479
- wood chips 10023

Thermomucilase test,

- Staphylococcus aureus, food 2561

Thermophilic bacterium,

- ATPase 1634

Thermophilic enzyme,

- thermostability 9351

Thermopolyspora glauca,

- soil 2056

Thermoradiation,

- Achromobacter aquamarinus 1277
- Bacillus subtilis 1277
- sewage sludge 3104
- Staphylococcus aureus 1277

Thermosanitation,

- plant protection 3563

Thermostability,

- thermophilic enzymes 9351

Thermostable nuclease test,

- Staphylococcus aureus, food 5202

Thermus aquaticus,

- endo-nuclease 6907
- DNA polymerase 836
- superoxide dismutase 7665

Thiabendazole,

- + dichloromethane, seed dressing, soybean 2031
- + iodine complex, fungicide, plant protection 5432
- + N-methyl-2-pyrrolidone, fungicide, plant protection 5433
- Ceratocystis paradoxa, pineapple 8822
- Cercospora personata, peanut 4516
- Diplodia natalensis, avocado post-harvest decay 9909
- Diplodia natalensis, orange post-harvest decay 6318
- fungi, strawberry post-harvest decay 8760
- fungicide, plant protection 2818
- Fusarium oxysporum, sweetpotato 6373
- Geotrichum candidum, orange post-harvest decay 2771
- grape post-harvest decay 5399

Subject index

Thiabendazole (Contd),

- guava post-harvest decay 2767
- Penicillium digitatum*, orange post-harvest decay 6318
- Phoma exigua*, potato 7947
- Phomopsis citri*, orange post-harvest decay 6318
- Phytophthora nicotianae*, tomato 4494
- resistance, phytopathogenic fungi 376
- Sclerotinia sclerotiorum*, orange post-harvest decay 6318
- seed dressing, *Helminthosporium solani*, potato 7993
- seed treatment, *Rhizoctonia solani*, potato 2033
- seed treatment, *Sclerotium rolfsii*, lentil 4523
- snow mould fungi, turfgrass 4485
- Verticillium dahliae*, brinjal 4489
- yam post-harvest decay 7948

1,3,5-Thiadiazine-2-thione, derivatives, fungistat 1236

Thiadiazole,

- derivative, antibacterial agent 4667
- derivative, *Mycobacterium leprae* 8061
- derivatives, antiviral agent 8087
- derivatives, bactericide/fungicide, plant protection 3597
- 5-ethoxy-3-(trichloromethyl)-1,2,4-, *Phytophthora parasitica*, radiata pine 4548

1,3,4-Thiadiazole,

- urea derivatives, *Pythium aphanidermatum*, plant protection 3582

Thiadiazolo-benzimidazole,

- derivatives, fungicide/fungistat 8081

Thiadiazolo-imidazole,

- derivatives, fungistat/fungicide 10178

Thiadiazolylurea,

- derivatives, fungicide, plant protection 1113

Thiamine,

- see also Vitamin B1
- + yeast, tablet 806
- assay, food, *Lactobacillus viridescens* 9535
- beer/yeast, assay, *Lactobacillus fermentum* 4160
- microbiological assay, beer, yeast 6016

Thiamine monophosphate phosphohydrolase,

- Micrococcus denitrificans* 6926

Thiamine pyrophosphokinase,

- Saccharomyces carlsbergensis* 5974

Thiamphenicol,

- anaerobic bacteria 2994 9096
- trimethylsilyl derivatives 8164

Thiazinium,

- derivatives, bactericide/fungicide 3725

Thiazole,

- 4-(p-aminophenyl)-, *Mycobacterium tuberculosis* 493
- derivatives, + indole derivatives, Schiff bases, antituberculous agent/antifungal agent 8969
- derivatives, *Mycobacterium tuberculosis* 2106
- fluorine-containing, fungicide 10170
- fluoroaryl-, derivatives, fungicide 2958
- fluorosubstituted, antifungal agent 5575
- nitro-, derivatives, antimicrobial agent 9005

Thiazolidinone,

- derivatives, fungicide 2959

Thiazolo(5,4-f)quinoline-8-carboxylic acid,

- derivatives, antibacterial agent/antifungal agent 1273

Thickening agent,

- Xanthomonas heteropolysaccharide* 2516

Thielavia,

- enzymes 9350

Thielavia minor,

- coal mine soil 2062 5479

Thielavia terricola,

- cluster bean, culture medium 1004
- sesame, culture medium 1004
- sesame, fungicide 381

Thielaviopsis,

- bis-trifluoromethyl-imine-imidazolone derivatives, plant protection 5429
- fennel rhizosphere, subamycin 2863
- garlic juice 8987
- pyridazine derivatives 2019
- tetrazolo-pyrimidine derivatives, plant protection 3584

Thielaviopsis basicola,

- 2-amidocarbonylthiobarbituric acids 2027
- + *Pratylenchus penetrans*, cherry replant disease 5352
- carrot, cold treatment 9949
- chlamydospores, soil 6428
- chlamydospores, soil, perforation lysis 6427
- cotton, mycorrhiza 8690
- plants 436
- soil 436
- soybean, biological control 363
- tobacco, resistance 4477
- Thielaviopsis paradoxa*, melon post-harvest decay 9918
- sorghum 1885
- sugarcane 1885

Thienamycin,

- Streptomyces cattleya*, antibacterial agent 651

Thienoazepinone,

- nitro-derivatives, antibacterial agent 4665

Thienopyridine-carboxylic acid,

- derivatives, antibacterial agent 503 2944

beta-2-Thienylalanine,

- assay, bacteria 4937

Thimerosal,

- soft contact lens preservative 4700

Thin layer-flow reactor,

- Rhizopus amyloglucosidase* 7611

Thioallophanate,

- derivatives, fungicide, plant protection 391 1111

Thioaurine,

- yeasts 2170

Thiobacillus,

- activated sludge, carbonisation effluent treatment 685
- iron oxidation 5512
- oil shale, fuel 10085
- stone building, leaching 467
- sulphur oxidation 5512
- uranium leaching 466

Thiobacillus A2,

- rhodanese 4109

Thiobacillus concretivorus,

- leaching 461
- oil shale leaching 2900

Thiobacillus delicatus,

- thiosulphate oxidation 2089

Thiobacillus denitrificans,

- septic tank effluent denitrification 1464
- soil, denitrification 444
- tetrathionate oxidation, ion-sensitive electrode 6457

Thiobacillus ferrooxidans,

- acid mine drainage, immunofluorescence 462
- batch/continuous culture, iron oxidation 8931
- chalcocite leaching 1180
- ferric iron reduction 2901
- iron oxidation, uranium leaching 8039
- jarosite, soil, mackinawite, *Desulfovibrio desulfuricans* 2088
- leaching 461
- metal leaching, chalcocite 464
- microorganisms 5509
- soluble silver 2903
- stibnite oxidation 8933

Subject index

- Thiobacillus ferrooxidans**(Contd),
thiosulphate oxidation 2089
underground tunnel 4612
uranium leaching 466 2905
zinc leaching 1181
- Thiobacillus intermedius**,
D-ribulose-1,5-bisphosphate carboxylase 48
49
- Thiobacillus thiooxidans**,
ferric iron reduction 2901
ferrocytochrome c:hydrogen-peroxide
oxidoreductase 7622
leaching 461
NADPH-glutathione oxidoreductase 3295
oil shale leaching 2900
pyrophosphatase 7657
replica plating, thalious sulphide paper
2389
sulphur oxidation, pyruvate 5513
underground tunnel 4612
- Thiobacillus thioparus**,
glutamate synthase 6896
phosphatase 39
replica plating, thalious sulphide paper
2389
ribiose-5-phosphate isomerase 863
- Thiobarbituric acid assay**,
streptomycin 5680
- Thiocapsa roseopersicina**,
hydrogenase 7631
NADP-reductase 9422
ribulose-1,5-diphosphate carboxylase 2503
- Thiocarbamate**,
Lophodermium pinastri, pine 1151
quaternary ammonium, antifungal
agent/antibacterial agent, oral hygiene
1535
- Thiocarbamate formamidine**,
derivatives, fungicide, plant protection
1013
- Thiocarbamoyl sulphenamide**,
derivatives, bacteriostat, detergent 9228
- Thiocillin I**,
Bacillus cereus, antibacterial agent 2270
Bacillus megaterium, antibacterial agent
2270
- Thiocillin II**,
Bacillus badius, antibacterial agent 2270
Bacillus cereus, antibacterial agent 2270
Bacillus megaterium, antibacterial agent
2270
- Thiocillin III**,
Bacillus badius, antibacterial agent 2270
- Thiocyanate**,
derivatives, fungicide 5569
- Thiocyano xanthate**,
derivatives, bactericide/fungicide 2972
- 2-(Thiocyanomethylthio)benzothiazole**,
+ benzimidazole derivative, fungistat, seed
treatment, plant protection 9994
fungicide, plant protection 5417
seed treatment, Phoma betae, sugarbeet 8839
- Thioglycolate broth disc method**,
antibiotic sensitivity testing, anaerobic
bacteria 2165
- Thiolacetic acid**,
derivatives, antibacterial agent/antifungal
agent 3723
- Thiolase**,
Escherichia coli fatty acid oxidising enzyme
complex 6887
- alpha-Thioliucosamide**,
lincomycin 8166
- Thiophosphate**,
O-(2-vinylphenyl)-, derivatives, fungicide,
plant protection 3577 4505
- Thiolutin**,
yeasts 2170
- Thiomersal**,
preservative, antibacterial agent 6539
- Thiomethylhydantoin-S-oxide**,
derivatives, antimicrobial agent 10189
- Thionaphthamide**,
derivatives, Mycobacterium tuberculosis 5545
10135
- Thionosalicylic acid anilide**,
derivatives, antibacterial agent/antifungal
agent 3726
- Thiopeptin**,
9501
antibacterial agent, Escherichia coli 2271
chicken feed, assay, Acholeplasma laidlawii
7786
- Thiopeptin B**,
10409
- Thiophanate**,
fungicide, plant protection 1101
Fusarium solani, letil 2789
Pythium ultimum, letil 2789
Rhizoctonia solani, letil 2789
- Thiophanate-methyl**,
Botrytis cinerea, grapevine 5425
- Thiophanate-methyl**,
Botrytis cinerea, grapevine 5425
Botrytis cinerea, tomato 8904
Cercospora beticola, sugarbeet 8823
Lophodermium pinastri, red pine 1145
Lophodermium pinastri, Scots pine 1145
Monilinia fructicola, peach 399
Pithomyces chartarum, pasture 2004
resistance, phytopathogenic fungi 376
root rot fungi, pea 377
seed dressing, Ustilago tritici, wheat 5440
Septoria leucanthemi, Killian daisy 3570
Septoria tritici, wheat 9964
snow mould fungi, turfgrass 4485
tolerance, Botrytis cinerea, strawberry,
glycophene 8806
tolerance, Sclerotinia fructicola, peach
8798
tolerance, Venturia inaequalis, apple 3571
Venturia inaequalis, apple, resistance 398
- Thiophenamine**,
dinitro derivatives, bactericide 2942
- Thiophosphoric acid ester amide**,
derivatives, fungicide/bactericide/virucide,
plant protection 1117
- Thiosemicarbazone**,
aryl-5-fluoro-2-methoxyphenyl-, fungicide
3710
derivatives, antituberculous agent 10138
derivatives, influenza virus 7344
fluorinated ketone derivatives, fungicide
2955
- Thiostrepton**,
Streptococcus mutans 552
veterinary topical product, antibacterial
agent/antifungal agent 2970
- Thiosulphate**,
oxidation, Thiobacillus delicatus 2089
oxidation, Thiobacillus ferrooxidans 2089
- Thiosulphate citrate bile salt sucrose agar**,
Vibrio 3196
- Thiosulphate citrate bile salts sucrose agar**,
Vibrio cholerae 1587
- Thiosulphonate**,
antibacterial agent/antifungal agent 4690
- Thiotepa**,
influenza virus 5591
- Thiothrix**,
activated sludge bulking, hydrogen peroxide
9193
drip irrigation system 716
- Thiouracil**,
broadbean mosaic virus, broad bean 3591
- 2-Thiouracil**,
cucumber mosaic virus, chilli 8834
- 4-Thiouracil**,
Streptomyces libani, antibacterial agent
6653

Subject index

- Thiurea,**
antifungal agent 8992
Colletotrichum gloeosporioides, guava
post-harvest decay 346
derivatives, antibacterial agent 3933
derivatives, antimicrobial agent 5596
derivatives, antiviral agent 4686
derivatives, rhinovirus 8998
- Thioureidobenzene phosphate,**
derivatives, fungicide, plant protection
2014
- Thioxanthene,**
bis-basic ketones, antiviral agent 1248
- Thiram,**
bean seed fungi 4301
Botrytis cinerea, strawberry 7976
Bremia lactucae, lettuce 4391
Cercospora sorghi, Sorghum bicolor 7973
Chromosporium fulvum, Crabe abyssinica
8691
Curvularia trifolii, turfgrass 1873
Fusarium oxysporum 4484
Fusarium oxysporum, wheat 2801
Fusarium/Rhizoctonia/Sclerotium, peanut 266
Gloeocercospora sorghi, Sorghum bicolor 7973
Macrophomina phaseolina, papaya 2802
Melampsora larici-populina, poplar 2047
Phytophthora nicotianae, mandarin orange
2724
resistance, Rhizobium, legume seed treatment
7273
Rhizoctonia solani, cauliflower 1103
seed dressing, fungi, jute seed 2825
seed dressing, radiate pine, mycorrhiza 6382
seed treatment, bean 7990
seed treatment, fungi, bean 1859
seed treatment, fungi, soybean 1859
seed treatment, Fusarium culmorum/Drechslera
soronkiniana/Rhizoctonia solani, oat 1120
1120
seed treatment, Geniculodendron pyriforme,
Sitka spruce 7238
seed treatment, Phoma lingam, cabbage seed
8837
seed treatment, Pythium ultimum, cotton 9992
seed treatment, Rhizoctonia solani, cotton
8836 9992
seed treatment, Sclerotium rolfsii, lentil
4523
soil microorganisms 4611
- Thiram 30,**
seed dressing, Rhizobium, cowpea 2029
- Thistle,**
tobacco etch virus 1936
- Thiia occidentalis,**
Pestalotia psidii, guava post-harvest decay
9915
- Threonine,**
Arthrobacter 3230
Brevibacterium 3230
Micrococcus glutamicus 8323
mushroom protein 5236
Mycobacterium 3230
- L-Threonine antagonist,**
N-1409, Streptomyces plumbeus 8325
plumbeycin A, plumbeycin B, Streptomyces
plumbeus, structure 9339
- Threonine deaminase,**
Bacillus stearothermophilus 4110
- Thuja plicata,**
decay fungi 5446
Phellinus weirii 1124 7232
- Thunbergia grandiflora,**
Cercospora thunbergiana 8593
- Thuricide,**
Galleria mellonella, beecomb 3442
Indian meal moth 2541
thuringiensis A, C-mitotic agent 2653
- Thuringiensin,**
Bacillus thuringiensis, structure 8579
- Thuringiensis A,**
Bacillus thuringiensis, C-mitotic agent 2653
- Thyae,**
fungicide 3569
- Thymidine,**
culture medium 9275
tritiated, culture, aquatic bacteria 2373
- Thymidylate synthetase,**
Escherichia coli, affinity chromatography
1678
- Thymine-less death,**
Micrococcus radiodurans,
chloramphenicol/rifampicin 4745
- Thymus,**
fungicide 3569
- Thyronectria austro-americana,**
honeylocust 4336
- Tiamulin,**
Chlamydomonas anserina, senescence prevention
5765
- Tibezonium,**
antibacterial agent 9008
- Ticarcillin,**
+ tobramycin, antibacterial agent 9052
amikacin 1297
anaerobic bacteria 2994 7375
anaerobic bacterium 5673
antibacterial agent 605 3752 8157
antibacterial agent, sensitivity test
broth/urine 3009
Clostridium perfringens 7371
Enterobacteriaceae 6557
gentamicin 1297
Proteus rettgeri 1201
Pseudomonas aeruginosa 5674 6565
sensitivity testing, anaerobic bacteria
10232
sisomicin 1297
tobramycin 1297
- Tick-borne encephalitis virus,**
adsorption chromatography 10637
- Tilapia,**
dried, bacteriology 935
- Tilapia nilotica,**
dried, nisin 1794
- Tilletia,**
animal feed 9621
benzamide derivatives, plant protection 4508
cereal grain 9621
- Tilletia caries,**
benzimidazole derivative +
2-(thiocyanomethylthio)-benothiazole seed
treatment fungistat, plant protection 9994
triorganotin compounds/triorganolead
compounds 2129
wheat 1895 1896 2714 4320
wheat, Bacillus seed treatment 4525
wheat, fungicide tolerance 7225
- Tilletia controversa,**
Hordeum leporinum 4320
wheat 1896 2714
- Tilletia foetida,**
hexachlorobenzene resistance, plant
protection 7204
wheat 1895 2714 4320
wheat, Bacillus seed treatment 4525
wheat, fungicide tolerance 7225
- Tilletia hordei,**
Hordeum leporinum 4320
- Tilletia indica,**
wheat 9815
- Tilletia laevis,**
wheat 4320
- Tilletia lolii,**
perennial ryegrass 7890
- Tilletia tritici,**
bis-trifluoromethyl-imine-imidazolone
derivatives, plant protection 5429
wheat 4315 4320
wheat, BAS 3191 F 1109

Subject index

- Tillex,**
 Ridigoporus lignosus, teak 1158
- Tilorone,**
 + ampicillin, *Salmonella typhimurium* 4766
 analogues, antiviral agent 8086
 interferon, antiviral agent 8997
- Tilorone hydrochloride,**
 analogues *Venezuelan equine encephalitis virus* 5587
 Venezuelan equine encephalitis virus 5587
- Timed-release capsule method,**
 coliform 3972
- Timothy grass,**
 Cladosporium phlei 7875 8641
 fungal diseases 8641
 Helminthosporium 8641
 Helminthosporium phlei 7875
 Heterosporium phlei 2700
 Leptosphaeria nodorum 6236
 Phleum green stripe virus, Megadelphax
 sordidula 1871
 Puccinia graminis 4334
- Tin,**
 organo-, bactericide/fungicide 1260
 organo-, seed treatment, fungi, bean 1859
 organo-, seed treatment, fungi, soybean 1859
 tri-2-norbornyl-, fungicide, plant protection
 6363
 trialkyl-, wood preservative 10034
 triaryl-, wood preservative 10034
 tributyl derivative, fungicide, wood
 preservative 10035
 triorgano-, bactericide/fungicide 2129
 triorgano-, fungicide, plant protection 389
 triphenyl-, *Cercospora beticola*, sugarbeet,
 benomyl resistance 5389
- Tin oxide,**
 tributyl-, wood preservative 4554
- Tinidazole,**
 Actinomyces israelii 7369
 anaerobic bacteria 7323
 Arachnia propionica 7369
 Bacteroides 8068
 Bacteroides fragilis 2166 8069
 Clostridium 8069
 Peptostreptococcus 8069
- Tirandamycin,**
 antibacterial agent, RNA polymerase 2272
- Tirandamycin B,**
 Streptomyces flaveolus, antibacterial agent
 2273
- Tissue,**
 animal, aflatoxins 978
 plant, maceration stimulating factor,
 Aspergillus japonicus 2531
- Tissue culture,**
 see also Cell culture
 aflatoxin E1 2628
 antiviral agent, thioxanthene bis-basic
 ketones 1248
 antiviral agent, xanthene/xanthenone
 bis-basic ketones 1249
 mycoplasma-like organism, stolbur, tobacco
 367
 Mycoplasma, quality control 549
 plant, virus disease, plant protection 9950
 pumpkin mosaic virus 791
 Rous sarcoma virus, polyethylene
 glycol-pronase concentration 4012
 tobacco, fusicoccin 7066
 tomato stolbur, plant protection 1098
 Treponema pallidum 3195
 vaccine/interferon 789
- Tissue section,**
 Aspergillus fumigatus, Grocott stain 2391
 Blastomyces dermatitidis, Grocott stain 2391
 Coccidioides immitis, Grocott stain 2391
 Histoplasma capsulatum, Grocott stain 2391
- Titanium citrate,**
 culture medium, anaerobic bacteria 4934
- Titanium hydroxide,**
 microorganism immobilisation 1620
- Titration,**
 antistreptolysin O 4970
- Tobacco,**
 + *Rhizobium japonicum*, nitrogen fixation
 4596
 + *Rhizobium lupini*, nitrogen fixation 4596
 + *Rhizobium*, nitrogen fixation 2076
 Alternaria alternata, biological control
 5416
 Alternaria alternata, biological control,
 Bacillus cereus 9955
 beet curly top virus, latex flocculation
 assay 10628
 callus culture, tobacco mosaic virus 5294
 Cercospora nicotianae 1959
 coconut root wilt virus, immunofluorescence
 1958
 cucumber mosaic virus 4365
 Erwinia carotovora, microwave irradiation
 seed treatment 9990
 Phomopsis cytochalcasin H 985
 Phytophthora cryptogea 6305 6306
 Phytophthora cryptogea extracts 7937
 Phytophthora nicotianae, soil fumigant 9971
 Phytophthora parasitica 6305
 Phytophthora parasitica extracts 7937
 Phytophthora parasitica, fungicide 9972
 polyanion-induced resistance, tobacco mosaic
 virus 1994
 potato virus X, virazole 7985
 potato virus Y 6304
 potato virus YN 9877
 Pseudomonas lachrymans, *Pseudomonas*
 phaseolicola toxin 7179
 Pseudomonas morsprunorum lipopolysaccharide
 2519
 Pseudomonas phaseolicola, *Pseudomonas*
 phaseolicola toxin 7179
 Pseudomonas pisi, *Pseudomonas phaseolicola*
 toxin 7179
 Pseudomonas solanacearum 9944
 Pseudomonas syringae, *Erwinia chrysanthemi*
 protein + lipopolysaccharide 3594
 Pseudomonas tabaci, triazinedione derivatives
 1119
 resistance, *Peronospora tabacina* 8778
 resistance, *Phytophthora nicotianae* 9945
 resistance, *Pseudomonas solanacearum* 9944
 resistance, *Thielaviopsis basicola* + tobacco
 mosaic virus + wildfire 4477
 resistance, tobacco mosaic virus 4476
 resistance, tobacco necrosis virus 4476
 rhizosphere mycoflora 1165
 stolbur, mycoplasma-like organism, tissue
 culture 367
 tissue culture, fusicoccin 7066
 tobacco mosaic virus 2657 3532 3533 7936
 8738 9898
 tobacco mosaic virus, cabbage leaf extract
 516
 tobacco mosaic virus, carbendazim 2819
 tobacco mosaic virus, kinetin 3534
 tobacco mosaic virus,
 poly-L-lysine/poly-L-arginine 3535
 tobacco mosaic virus, sodium dodecyl
 sulphate/triton X/Tween 80 5435
 tobacco mosaic virus, virus-infection
 stimulating factor 8737
 tobacco rattle virus, *Trichoderma* 3536
 tomato spotted wilt virus, electron
 microscopy 7178
 Verticillium dahliae 3537
- Tobacco etch virus,**
 Chenopodium album 1936
 horse nettle 1936
 pepper 1936

Subject index

Tobacco etch virus(Contd),

pepper, resistance 8776
thistle 1936

Tobacco hornworm,

Bacillus thuringiensis parasporal crystal
7080

Tobacco mosaic virus,

+ bromegrass mosaic virus, barley 7878
bean 1831
bean, sodium dodecyl sulphate/triton X/Tween
80 5435

bright-field electron microscopy 5827 5828

cabbage leaf extract 516

Chenopodium amaranticolor, virus-infection
stimulating factor 8737

Datura stramonium 2657

fungal germanium, plant protection 1694

grapevine 4390

Nicotiana 6276

Nicotiana glutinosa 7156

Nicotiana glutinosa, *Dahlia* leaf extract
3590

Nicotiana glutinosa, virus-infection
stimulating factor 8737

Phaseolus vulgaris, virus-infection
stimulating factor 8737

plant disease, resistance 4447

pollen, plant disease 7103

poly-L-lysine/poly-L-arginine 3535

Pythium 4424

rhizopin 1438

RNA 4991

scanning transmission electron microscopy
6753

Solanum laciniatum 7171

tobacco 2657 3532 3533 7936 8736 9898

tobacco callus culture 5294

tobacco, carbendazim 2819

tobacco, kinetin 3534

tobacco, poly-L-lysine/poly-L-arginine 3535

tobacco, polyanion-induced resistance 1994

tobacco, resistance 4476 4477

tobacco, sodium dodecyl sulphate/triton
X/Tween 80 5435

tomato 1831 6307 7939 7940 7941 9899

tomato, plant protection 5392

tomato, resistance 5411 7941 9946

Tobacco necrosis virus,

bean 1831

bean, *Ditylenchus dipsaci* 7110

carrot, *Pythium* root dieback 8685

Chenopodium amaranticolor 4425

Chenopodium amaranticolor leaf extract 4521

cowpea 1831

cowpea, cold treatment 9949

cucumber, cold treatment 9949

Nicotiana tabacum, resistance 4476

sodium dodecyl sulphate 2397

tulip, *Olpidium brassicae* 4429

Vigna radiata 1831

Tobacco rattle virus,

antiviral agent, plant protection 9984

gladiolus, nematocide 4480

poplar 250

potato, plant protection 7928

tobacco, *Trichodorus* 3536

tulip 6313

Tobacco ringspot virus,

bean 1831

cowpea 1831

cowpea, cytokinin, kinetin 8608

eggplant 8692

flowering cherry 7901

geranium 7151

Japanese holly 8698

potato 6285

red clover 3462

sweet cherry 7901

Vigna radiata 1831

Tobacco streak virus,

asparagus 9849

bean 1831

cowpea 1831

Vigna radiata 1831

Tobramycin,

2171 10221 10258

+ ampicillin, *Streptococcus* group D 5634

+ ampicillin, *Streptococcus viridans* 5634

+ carbenicillin, *Acinetobacter calcoaceticus*
9051

+ carbenicillin, *Pseudomonas* 7381

+ cephaclaretre, antibacterial agent 6555

+ beta-lactam antibiotic, antibacterial agent
7382

+ nafcillin/oxacillin/methicillin,
Streptococcus group D 5642

+ penicillin, *Streptococcus* group D 5634

+ penicillin, *Streptococcus viridans* 5634

+ ticarcillin, antibacterial agent 9052

+ vancomycin, *Streptococcus* group D 5634

+ vancomycin, *Streptococcus viridans* 5634

antibacterial agent 528 563 2186 2189 2969

3075 3755 3758 4631 4740 4826 4827 5750

5751 6484 6562 6563 6564 6654 6656 6658

6659 6660 6661 7384 7385 7386 7425 8130

10260 10293

antibiotic sensitivity testing, anaerobiosis
6547

assay, *Escherichia coli* aminoglycoside

2-adenylyltransferase 2183

assay, *Klebsiella edwardsii* 6655

assay, *Klebsiella edwardsii* ATP-firefly

luminescence 10225

assay, *Staphylococcus aminoglycoside*

4-adenylyltransferase 2183

carbenicillin 1297

Corynebacterium minutissimum 1306

Corynebacterium parvum 1306

Enterobacter cloacae 2993

Enterobacteriaceae 2184 2185 6555 6651

Enterobacteriaceae, antibiotic sensitivity

testing 4720

Escherichia coli 2993

iodinated, radioimmunoassay 2274

Klebsiella pneumoniae 2993

Listeria monocytogenes 5629

Mycobacterium 7388

polyanionic detergents 7389

Propionibacterium acnes 1306 5630

Propionibacterium avidum 1306

Propionibacterium granulosum 1306

Proteus 2993

Providencia 2993

Pseudomonas aeruginosa 1321 2184 2185 2993

3749 6566 6654 6657 6658 6660 6661 8195

Pseudomonas aeruginosa, antibiotic

sensitivity testing 4720 8116

resistance, *Alcaligenes odorans* 6656

resistance, *bacteria* 8958

resistance, *Escherichia coli*, R factor 8052

resistance, *Klebsiella*, R factor 8052

resistance, *Proteus rettgeri* 4643

resistance, *Pseudomonas aeruginosa* 1211

resistance, *Pseudomonas diminuta* 6656

resistance, *Serratia marcescens*, R factor
8052

resistance, *Staphylococcus aureus* 1207 4644

resistance, *Staphylococcus epidermidis*,

tobramycin adenylyltransferase 6491

Salmonella 8949

Salmonella enteritidis 2993

sensitivity testing, Enterobacteriaceae
10259

sensitivity testing, *Pseudomonas aeruginosa*,
culture medium 6549

Serratia marcescens 2993

Staphylococcus 6661

Staphylococcus aureus 1207 6659

ticarcillin 1297

Subject index

Tobramycin(Contd),

- Yersinia enterocolitica 6551
- Tobramycin adenyltransferase,**
- Staphylococcus, aminoglycoside antibiotics assay 2183
- Staphylococcus epidermidis, aminoglycoside antibiotics resistance 6491

Toetoe,

- Armillaria novae-zelandiae, radiate pine 5452

Togavirus,

- microculture plaque titration 10639

Toilet,

- 702
- bactericide 727
- oil-flushed 9200

Toilet bowl,

- bacteriostat 4891

Toilet bowl cleanser,

- antibacterial agent 6730 6731

Tolerance,

- Bacillus subtilis, beta-lactam antibiotic 2168
- Botrytis cinerea, benomyl 6372
- Botrytis cinerea, benomyl, Leucospermum cordifolium 5377
- Botrytis cinerea, benomyl, strawberry 8806
- cluster bean, Alternaria cyanopsidis 2672
- corn, maize chlorotic dwarf virus 357 1868
- corn, maize dwarf mosaic virus 357 1868
- cotton, Verticillium dahliae 1925
- grapevine, Pierce's disease 1929
- Monilinia fructicola, benomyl, stone fruit 4627

- Mycosphaerella fijiensis, benomyl, banana 6369

- Penicillium ochro-chloron, heavy metals 8930

- Pyricularia oryzae, blasticidin S, rice 7218

- Sclerotinia fructicola, benzimidazole, peach 8798

- Sclerotinia homoeocarpa, fungicide, turfgrass 8796

- sodium chloride, Bacillus 5522

- sodium chloride, Tetracoccus soyae 5522

- Streptococcus pneumoniae, beta-lactam antibiotic 2168

- Streptococcus sanguis, beta-lactam antibiotic 8126

- Tilletia caries, fungicide, wheat 7225

- Tilletia foetida, fungicide, wheat 7225

- Venturia inaequalis, benomyl, apple 5431

- Venturia inaequalis, benzimidazole, apple 3571 7213

- Venturia inaequalis, benzimidazole fungicide, apple 9980

Tolnaftate,

- antifungal agent 2970

Toluene,

- petroleum wastewater, microbial treatment 691

- Streptomyces preservation 5609

cis-Toluene dihydrodiol dehydrogenase,

- Pseudomonas putida 7666

2-p-Teluidiynaphthalene-6-sulphonate

- fluorescence,

- microbial amylase 9356

o-toluylnitride,

- degradation, soil Mocardia 1179

Telyposporella nolinae,

- Clintara nolinae, Molina microcarpa 5381

Telyposporium chrenbergii,

- sorghum 4346

Tomatidine,

- derivatives, dehydrogenation, Mocardia

- restrictus 9439

Tomato,

- 5392

- Agrobacterium tumefaciens, hydrocarbons 5437

- alfalfa mosaic virus 5393

Tomato(Contd),

- Alternaria, oxadiazolidine-3,5-dione

- derivatives 1115

- Alternaria solani 8740

- Alternaria solani, ethephon + fungicides

- 8805

- Alternaria solani, fungicide + polymeric film

- 374

- Alternaria solani, furan-3-carboxamide

- derivatives 1112

- Alternaria solani, phthalimide derivatives

- 2815

- Alternaria solani, plant protection 5392

- Alternaria tenuis, ethephon + fungicides

- 8805

- beet curly top virus, beet leafhopper 9891

- beet curly top virus, latex flocculation

- assay 10628

- Botrytis cinerea, fungicide 8804

- Botrytis cinerea, plant protection 5392

- Botrytis cinerea, rishitin 1961

- canned, flame sterilisation 1798

- canned, mould, Clostridium botulinum toxin

- 3447

- Cladosporium fulvum 8741 9901

- Colletotrichum coccodes, enzymes 6309

- Colletotrichum coccodes, pectin

- transeliminase 6308

- Colletotrichum, ethephon + fungicides 8805

- Corynebacterium michiganense 1960 9902

- Corynebacterium michiganense, plant

- protection 5392

- cucumber mosaic virus 9899

- cucumber mosaic virus RNA 5 7938

- Cylindrocarpum tonkinense post-harvest decay

- 7189

- Fulvia fulva, plant protection 5392

- fungal fruit rot 3545

- Fusarium lycopersici, rishitin 8789

- Fusarium oxysporum 4426 6310 6311 9904

- Fusarium oxysporum, fungicide 378

- Fusarium oxysporum, beta-1-4-endo-glucanase

- 7942

- Fusarium oxysporum, nematode 8742

- Fusarium oxysporum, plant protection 5392

- fusicoccin 9714

- Geotrichum 7181

- Myrothecium rostratum post-harvest decay 4446

- Phoma destructiva, plant protection 5392

- Phytophthora infestans 4291 8740

- Phytophthora infestans, 2-aminopyrimidine

- derivatives 395

- Phytophthora infestans, diphenylamine

- derivatives 392

- Phytophthora infestans, imidazo-pyrimidine

- derivatives 4512

- Phytophthora infestans, oxadiazolidine-3,5-dione derivatives 1115

- Phytophthora infestans, plant protection

- 5392

- Phytophthora infestans, pyrazolium

- derivatives 3581

- Phytophthora infestans,

- 7-(beta-D-ribofuranosyl)-pyrrolo-pyrimidine

- derivatives 3589

- Phytophthora infestans, triazinedione

- derivatives 1119

- Phytophthora nicotianae, fungicide 4494

- Phytophthora parasitica, coumarins 4510

- Phytophthora, Phytophthora ceterum, soil

- 6432

- Phytophthora, plant protection 5392

- pith rot, plant protection 5392

- post-harvest decay, Alternaria solani 5392

- post-harvest decay, Cylindrocadium scoparium

- 1976

- post-harvest decay, Phoma destructiva 5392

- post-harvest decay, Phytophthora 5392

- post-harvest decay, Pythium 5392

- post-harvest decay, Rhizopus 5392

Subject index

Tomato(Contd),

potato spindle tuber viroid, lyophilisation preservation 6540
 potato virus Y 6304 9899
 potato virus Y, plant protection 5392
Pseudomonas solanacearum 8740
Pseudomonas solanacearum, ethylene 3538
Pseudomonas solanacearum, plant protection 5392
Pseudomonas tomato 7180 9900
Pseudomonas tomato, plant protection 5392
Pseudomonas tomato, triazinedione derivatives 1119
 pulp, Howard count 942
 pulp waste silage, cattle feed 6104
Pyrenochaeta lycopersici 6251 6312
Pythium aphanidermatum 1085
Pythium butleri 5394
Pythium, plant protection 5392
 resistance, *Alternaria* 9946
 resistance, *Alternaria solani* 8780
 resistance, *Cladosporium* 9946
 resistance, *Corynebacterium michiganense* 1991 8779 9902
 resistance, *Fusarium oxysporum* 3561 6310 7959 8781 9946
 resistance, *Fusarium oxysporum*, nematode 1992
 resistance, *Fusarium oxysporum*, *Pseudomonas solanacearum* 9948
 resistance, *Pseudomonas solanacearum*, soil temperature 9947
 resistance, *Pythium aphanidermatum* 1086
 resistance, *Rhizoctonia* 8782
 resistance, *Rhizoctonia* post-harvest decay 9922
 resistance, *Stemphylium* 9946
 resistance testing, *Pyrenochaeta lycopersici* 361
 resistance, tobacco mosaic virus 5411 7941 9946
 resistance, *Verticillium* 9946
 resistance, *Verticillium albo-atrum*, phenolic compounds 337
Rhizoctonia solani + nematode 9903
Rhizoctonia solani, plant protection 5392
 rhizosphere, phosphate-solubilizing bacteria 8038
Sclerotinia sclerotiorum, benomyl 306
Sclerotinia sclerotiorum, plant protection 5392
Sclerotium rolfsii 8740
Sclerotium rolfsii, plant protection 5392 9951
Septoria lycopersici 336
Septoria lycopersici, plant protection 5392
Stemphylium botryosum 7943
Stemphylium solani, plant protection 5392
 stolbur, tissue culture, plant protection 1098
Synchytrium endobioticum 8743
 tobacco mosaic virus 1831 5392 6307 7939 7940 7941 9899
 tomato leaf curl virus, *Lycopersicon esculentum*, insecticide 1996
 tomato mosaic virus 2761
 tomato spotted wilt virus, plant protection 5392
 tomato yellow leaf curl virus 8739 9899
Verticillium albo-atrum 1962 4427 9846 9905
Verticillium albo-atrum, ethylene 6361
Verticillium dahliae 8744 8886 9904
Verticillium dahliae + *Meloidogyne javanica* 4428
Verticillium dahliae, plant protection 5392
Verticillium dahliae 4370
 vesicular-arbuscular mycorrhiza 4570
 virus 2657
 virus disease 335
Xanthomonas vesicatoria 6249 8740

Tomato(Contd),

Xanthomonas vesicatoria, copper compound 2026
Xanthomonas vesicatoria, plant protection 5392
 Tomato aspermy virus,
 sodium dodecyl sulphate 2397
 Tomato bushy stunt virus,
 bean 1831
 cowpea 1831
Gomphrena globosa 6269
 petunia asteroid mosaic strain, soil 7927
 sodium dodecyl sulphate 2397
Vigna radiata 1831
 Tomato juice,
Bacillus coagulans, preservation 970
Clostridium botulinum 9609
Clostridium botulinum, heat resistance 9687
 mouldy, *Clostridium botulinum*/botulinum toxin 3446
 Tomato leaf curl virus,
 tomato, whitefly, insecticide 1996
 Tomato mosaic virus,
 tomato 2761
 Tomato pulper waste,
 silage, ruminant feed 9640
 Tomato ringspot virus,
 apple 6239 9824
 geranium 7151
 grapevine 6271
 Tomato sauce,
Vibrio parahaemolyticus 1763
 Tomato spotted wilt virus,
 cucumber 6264
 pea 1831
 purification, serology 10638
Solanum laciniatum 7171
 tobacco, electron microscopy 7178
 tomato, plant protection 5392
 Tomato yellow leaf curl virus,
Datura stramonium 8739
 tomato 8739 9899
 Tongue,
 pork, *Yersinia enterocolitica* 8508
 Tonometer,
 peracetic acid 3917
 Toothbrush,
 steriliser 1280
 ultraviolet irradiation steriliser 1281
 Toothpaste,
 alexidine dihydrofluoride, dental plaque/dental calculus/dental caries/gingivitis 1533
 chlorhexidine, antibacterial agent 5815
 dental caries 10503
 fluoride/phosphate/calcium-containing ion-exchange resins, dental caries 8262
 Top rot,
Erwinia carotovora, potato 4403
Pectobacterium carotovorum, corn 9785
 Topinambur,
Agrobacterium tumefaciens 1917
 Topsin,
Sphaerotheca mors-uvae, blackcurrant 7905
 Topsin M,
Cercospora beticola, sugarbeet 8823
Cercospora herpotrichoides, wheat 8797
 fungicide, medicinal plant 3569
Helminthosporium sativum 8791
 Toptic,
Pityrosporum canis 5566
 Tordon,
Ceratocystis ulmi, elm 2044
 Torula,
 8291
 aliphatic diol diesters 3720
 biomass, cellulose waste hydrolysate 6704
 cellulose waste 2544
 protein, poultry feed 7033
 RNA, poultry feed 7033

Subject index

- Torula(Contd),**
thiolacetic acid derivatives 3723
- Torula caligans,**
soil 2867
- Torula thermophila,**
Agaricus bisporus culture 9602
amyloglucosidase 5919
coal mine soil 2062 5479
enzymes 9350
- Torula torulopsis,**
enzymatically-active protein cell membrane complex 5912
- Torula utilis,**
enzymatically-active protein cell membrane complex 5912
protein, chicken feed 5242
- Torulopsis,**
acetoin 3344
Actinomyces recifensis lytic enzyme 2480
S-adenosylmethionine/methylthioadenosine 871 1687
animal feed/food, methanol 820
beverage proportioning pumps 4225
carbonated beverage 5239
continuous culture, glucose/hexadecane 2913
culture 8292
diacetyl 3344
fruit syrup 5239
garlic extract 10169
meat/meat product 8505
metal ions 3699
phacidin 10398
plant leaf, pollen 2660
urea hydrolysis, Berthelot colour reaction 6795
- Torulopsis bombicola,**
dicarboxylic acid, alkane 7292
paraffin oxidation, macrocyclic ketone 2920
- Torulopsis candida,**
10531
alcohol dehydrogenase, glucose/hexadecane 3256
idli 4163
Saint-Nectaire cheese 161
sheep cheese 6066
soft drink 6093
- Torulopsis colliculosa,**
acetoin 3344 5142
diacetyl 3344
Enterobacter 3345
- Torulopsis enokii,**
culture, ethanol 781
- Torulopsis glabrata,**
amphotericin B, culture medium 3706
amphotericin B, radiometry 5694
blood culture 1592
econazole 2974
5-fluorocytosine 2952
killer toxin 5280
2-methylthio-5-(3-iodopropargyloxy)-pyrimidine 3705
miconazole 2952 2974
miconazole, culture medium 3706
shellfish 6086
tests 1593
- Torulopsis inconspicua,**
2-methylthio-5-(3-iodopropargyloxy)-pyrimidine 3705
- Torulopsis magnoliae,**
fruit cannery waste 911
- Torulopsis methanotlovicens,**
methanol 780
- Torulopsis methanophiles,**
culture, ethanol 781
- Torulopsis methanothermo,**
culture, ethanol 781
- Torulopsis sphaerica,**
fresh cheese 4203
Saint-Nectaire cheese 161
sheep cheese 6066
- Torulopsis stellata,**
soft drink 6093
- Torulopsis utilis,**
culture, cellulose waste 5862
5-nitrofurylacrylic acid, wine 3359
- Torulopsis xylinus,**
autolysis 1716
extract 5885
- Torulospore rosei,**
wine 8448
- Total oxygen demand,**
fermentation heat evolution 4155
- Toxicant,**
salt marsh microorganisms 10072
- Toxicity,**
aqueous liquid, microbial assay 2364
industrial waste, assay, Pseudomonas 3107
- Toxin,**
see also Microbial toxins
Alternaria eichhorniae, water hyacinth 7823
bacterial 4017
Clostridium botulinum 9728
Clostridium perfringens 993
Clostridium perfringens, vaccine 9171
Fusarium oxysporum, passionflower 7828
Helminthosporium maydis, assay 9715
Helminthosporium maydis, corn 7067
Helminthosporium sativum 2630
killer, Saccharomyces cerevisiae 5279 5280
killer, Saccharomyces sake 5279
killer, Torulopsis glabrata 5280
microbial, plant disease 6810
Nigrospora oryzae, rice 976
Penicillium lanoso-coeruleum, weevil-damaged pecan nuts 9719
Phoma lingam, rape 7072
Pseudomonas phaseolicola, Swiss chard 3449
Pseudomonas phaseolicola, tobacco, Pseudomonas lachrymans/Pseudomonas phaseolicola/Pseudomonas pisi 7179
Sphaceloma curcumae 3203
Vibrio parahaemolyticus 4283
- alpha-Toxin,**
Clostridium perfringens 1830 7083
Clostridium perfringens, masking/masked toxins 6151
Clostridium perfringens, toxoid 7855
Clostridium septicum, toxoid 8583
Staphylococcus aureus 3452 6158 7092
Staphylococcus aureus, cholesteryl esterase 5936 5937
Staphylococcus aureus, degradation, Staphylococcus protease 2651
Staphylococcus aureus, protein 9738
Staphylococcus pyogenes, masking/masked toxins 6151
- beta-Toxin,**
Clostridium perfringens, masking/masked toxins 6151
Clostridium perfringens, vaccine 9170
Staphylococcus pyogenes, masking/masked toxins 6151
- delta-Toxin,**
Clostridium perfringens 8582
Clostridium perfringens, masking/masked toxins 6151
Staphylococcus pyogenes, masking/masked toxins 6151
- epsilon-Toxin,**
Clostridium perfringens, vaccine 9170
- gamma-Toxin,**
Clostridium perfringens, masking/masked toxins 6151
Staphylococcus pyogenes, masking/masked toxins 6151
- theta-Toxin,**
Clostridium perfringens 6150
- alpha-Toxin, Clostridium perfringens,**
see also Phospholipase C

Subject index

- Toxoid,**
 cholera 667
 choleragenoid, *Vibrio cholerae* 7860
 Clostridium botulinum 7852
 Clostridium oedematiens, silica gel purification 4272
 Clostridium perfringens, silica gel purification 4272
 Clostridium perfringens toxin, vaccine 9170
 Clostridium septicum alpha-toxin 8583
 diphtheria 7847 9162
 tetanus 7847
 tetanus, human immunoglobulin 3834
 tetanus, human immunoglobulin antitoxin 3835
 alpha-toxin, Clostridium perfringens 7855
 Vibrio cholerae, vaccine, O-antigen standardization 7458
- Tracheomycosal wilt,**
Fusarium, lupin 5304
- Tracheomycosis,**
Fusarium xylarioides, coffee 4383
- Trachycarpus fortunei,**
 lethal yellowing, mycoplasma-like organism, oxytetracycline 8675
- Tragia involucreta,**
Cercospora tragiaefolia 999
- Tragopogon,**
Puccinia trysterium 6250
- Tragopogon plicoides,**
 alfalfa mosaic virus 338
 cucumber mosaic virus 338
- Trametes quercina,**
 xylanase 9438
- Trametes badia,**
 (2-chloroethyl)-trimethyl-ammonium chloride 1270
 cycloheximide 1230
 5-fluorodeoxyuridine 1230
 rifamycin 1230
- Trametes cinnabarina,**
 cellulose pulp 1707
- Trametes confragosa,**
 wood, scanning electron microscopy 6400
- Trametes gibbosa,**
 xylanase 9438
- Trametes hirsuta,**
 xylanase 9438
- Trametes odorata,**
 volatile odour compound 1695
- Trametes pini,**
 cellulose pulp 1707
- Trametes versicolor,**
 biomass, whey 1621
 beta-galactosidase, whey 1621
 protein, whey 1621
 trees 9996
 xylanase 9438
- Transaldolase isozyme I,**
Candida utilis 5099
- Transaldolase isozyme III,**
Candida utilis 5099
- Transaminase B,**
Escherichia coli 865
- Transcription,**
Penicillium roqueforti PR toxin 1810
- Transformation,**
 cannabinoid, microbial 8426
 8-chloro-10,11-dihydrodibenz(b,f)(1,4)oxazepine, fungi 4137
 cortisol, immobilised *Corynebacterium simplex*, prednisolone 5977
 glucine, *Fusarium solani* 6954
 glucine, *Streptomyces griseus* 6954
 hydrocortisone, immobilised *Mycobacterium globiforme* 7596
 maridomycin III, *Streptomyces* 5746
 microbial,
 8-hydroxy-6alpha-11alpha-dimethyl-3-alkyl-4a-cyl-1,2,3,4,5,6-hexahydro-2,6-methano-3-benzazocins 2535
- Transformation(Contd),**
 microbial, tetrahydrocannabinol 8427
 progesterone, *Cylindrocarpus radicola*, androstadienedione 8400
 progesterone, *Fusarium solani*, androstadienedione 7670
 Rhizobium, + alfalfa, nitrogen fixation 5489
 selenium, microorganisms 4145
 selenium, soil microorganisms 4145
 sisomicin, gentamicin C2b, *Micromonospora rhodorangea* 10262
 steroids, microorganisms 9501
- Transition metal dithiocarbamate complex,**
 antifungal agent 3700
- Transketolase,**
Saccharomyces cerevisiae 5975
- Transmissible gastroenteritis virus vaccine,**
 swine 3092
- Transport,**
 carbon dioxide, microbial film 5820
 microorganisms 6758
- Transport medium,**
 anaerobic bacteria 3955
 Herpesvirus hominis 8297
Streptococcus 3996
- Transport system,**
Clostridium perfringens 5837
Escherichia coli 5837
Klebsiella pneumoniae 5837
Mycoplasma hominis 5837
Neisseria gonorrhoeae 5837
Staphylococcus aureus 5837
Streptococcus pyogenes 5837
- Tranzschelia pruni-spinosae,**
 almond 9820
 apricot 9820
 Japanese plum 9820
 peach 9820
 plum 9820
- Tray,**
 polystyrene microscope, immunofluorescence 3159
- Tree,**
 bark, composting 7488
 bark, microbial fermentation, fertiliser/animal feed 7485
 disease 2037
- Treflan,**
 soil, *Fusarium solani*, bean 10073
- Trefoil,**
 + *Rhizobium*, nodulation, nitrogen fixation 8907 9806
 birdsfoot, *Myrothecium verrucaria* 6189
- Trehalose,**
Saccharomyces cerevisiae 5108 5109
- Tremorgen,**
 fumitremorgin B, *Penicillium piscarium* 6147
 verruculogen, *Penicillium piscarium* 6147
- Trepnema,**
 swine faeces, culture/isolation/identification medium 4938
 urease assay 8271
- Trepnema hyodysenteriae,**
 carbadox 495
 quinoxaline-1,4-dioxide derivatives 3689
 spectinomycin selective medium 1584
 swine, lincomycin + spectinomycin/tylosin + sodium arsanilate feed 954
 tylosin 495
 virginiamycin 495 2275
- Trepnema pallidum,**
 see also Syphilis
 cell culture 4002
 cell/tissue culture 3195
 Reagin Screen test 1585 1586
- Trepnema phagedenis,**
 glucosamine/glucosamine derivatives 2390

Subject index

- Tri-2-norbornyltin,**
derivatives, fungicide, plant protection 6363
- 2,4,6-Triacetylphloroglucinol,**
Pseudomonas fluorescens, antibacterial agent 7442
- Triacylglycerol lipase,**
Saccharomyces cerevisiae 3323
- Triadimefon,**
Erysiphe betae, sugarbeet 7205
fungicide 3572
fungicide, plant protection, fungal resistance 3572
resistance, *Botrytis cinerea*, plant protection 4626
Ustilago avenae 385
- Trialkyl tin,**
wood preservative 10034
- Triamcinolone acetonide,**
veterinary topical product, antibacterial agent/antifungal agent 2970
- 2,4,6-Triaminopyrimidine,**
derivatives, antifolate agent, *Streptococcus faecalis* 501
- Triarimol,**
fungicide 3573
fungicide, plant protection, fungal resistance 3572
- Triaryl tin,**
wood preservative 10034
- Triazenoimidazole,**
derivatives, bactericide/fungicide 1271
- Triazine,**
derivatives, antibacterial agent 1225
derivatives, antibacterial agent/antifungal agent 3728
derivatives, antibacterial agent/antifungal agent, plant protection 3728
derivatives, fungicide/bactericide 10193
derivatives, fungicide, plant protection 8821
- Triazinedione,**
derivatives, bactericide/fungicide, triazinedione derivatives 1119
- Triazino-benzimidazole,**
derivatives, fungicide, plant protection 3588
- Triazole,**
derivatives, antifungal agent 2960
derivatives, antiviral agent 8028
derivatives, fungicide 2951
derivatives, fungicide, plant protection 2018 7207 7208 7209
- 1,2,4-Triazole,**
derivatives, fungicide, plant protection 8816 8818
ribofuranosyl-, derivatives, antibacterial agent/antifungal agent 3727
- Triazolo-benzothiazole,**
derivatives, fungicide, plant protection 7216
- Triazolo-pyridazine,**
derivatives, bacteriostat 2117
- s-Triazolo-quinoline,**
derivatives, antifungal agent/antibacterial agent, plant protection 404
- Triazolyl-O,N-acetal,**
derivatives, fungicide, plant protection 394
- Triazolyl-phenyl-phenoxy-3,3-dimethyl-butan-2-one,**
fungicide, plant protection 8817
- Tribrissen,**
antibacterial agent 2939
- Tribromosalan,**
bacteriostat, skin 4905
- Tributyl tin borate,**
fungicide, wood preservative 10035
- Tributyl tin oxide,**
wood preservative 4554
- Tributyltinfluoride,**
activated-sludge microorganisms, waste treatment 8217
- Tributyltinoxide,**
activated sludge microorganisms, waste treatment 8217
- TRIC agent,**
swimming pool 3143
- Tricaprylin,**
Aspergillus flavus, aflatoxins 9701
- Tricarboxylic acid cycle,**
enzymes, *Candida albicans* 5914
- Trichloro-2-hydroxy diphenyl ether,**
germicide, soap 4907
- Trichlorocarbanilide,**
soap, skin bacteria 5816
- Trichlorodinitrobenzene,**
soil, *Cylindrocadium floridanum* 2899
- Trichloroethyl adipate,**
ruminant feed, methane suppression 9620
- bis(Trichloromethyl)-sulphone,**
slimicide, industrial water system 3124
- Trichloromethyl thioimide polymer,**
fungicide, latex paint 2908
- Trichlorophenol,**
milk/milk product microbiology 1725
monochloracetate esters, preservative 4614
- 2,4,6-Trichlorophenol,**
abattoir disinfectant 4897
- Trichoconis padwickii,**
rice seed 6223
- Trichoderma,**
amylase 9371
beech/spruce bark degradation 2829
biological control, *Fusarium culmorum*, wheat 8653
biomass/protein, ethanol 2428
biomass/protein, methanol 2428
3-bromoacetoxy tetrahydrofuran 533
carbamyloxy-benzamide derivatives 4691
cellulase 9371
compound 1426, structure 3079
corn 7882
frozen food 6026
fungi 110
halocyanacetamide + haloacetic ester 1496
hydrazino-pyridine derivatives 2139
methanol 3235
Norway spruce 8004
Norway spruce, *Fomes annosus* 7237
perennial ryegrass rhizoplane, chloropicrin 457
pistachio soil 5276
rice rhizosphere, pesticides 8916
slime, fibreboard industry 10471
slimicide, industrial water system 3124
soil, fungistasis, ethylene 2861
thiocyano xanthate derivatives 2972
trichorin A, antibacterial agent 10410
trichothecenes 7808
trifluoromethyl phenyl-3-(3',5'-dicyanophenyl)urea 2140
wheat rhizosphere 3636
- Trichoderma aureoviride,**
biological control, *Fusarium culmorum*/*Drechslera sorokiniana*/*Rhizoctonia solani*, oat 1099 1099
biological control, *Fusarium culmorum*, oat 7202
biological control, *Fusarium culmorum*, wheat 7202
biological control, *Rhizoctonia solani*, oat 7202
biological control, *Rhizoctonia solani*, wheat 7202
oil palm kernels 4220
- Trichoderma harzianum,**
biological control, *Fusarium culmorum*/*Drechslera sorokiniana*/*Rhizoctonia solani*, oat 1099 1099

Subject index

- Trichoderma harzianum(Contd),**
 biological control, *Fusarium culmorum*, oat 7202
 biological control, *Fusarium culmorum*, wheat 7202
 biological control, *Rhizoctonia solani*, oat 7202
 biological control, *Rhizoctonia solani*, wheat 7202
 fensulfothion 2086
 lytic enzyme, *Aspergillus nidulans* protoplast 6822
 soil leaf litter, fungi, microbial culture filtrates 10051
 soil, *Phytophthora cinnamomi* chlamydospores 7261
- Trichoderma koningii,**
 cellulase 6872
 cellulase, cellulose 5927
 cellulase, cellulose degradation, sugar 5925
 gram phyllosphere, *Uromyces ciceris-arietini*, gram 7465
 polygalacturonase 6872
 wood 7242
 wood chips 10023
- Trichoderma lignicolum,**
 8-chloro-10,11-dihydrodibenz(b,f)(1,4)oxazepine transformation 4137
- Trichoderma lignorum,**
 antifungal agent 6508
 biological control, wheat root rot 371
 cellulase 8357
 cellulase, culture medium 19
 methanol batch culture 6843
- Trichoderma polysporum,**
 soil, *Phytophthora cinnamomi* chlamydospores 7261
- Trichoderma pseudokoningii,**
 cellulase 6872
 polygalacturonase 6872
- Trichoderma viride,**
 6876
 2,5-dihydroxy-1,4-benzoquinones 8082
 + *Saccharomyces cerevisiae*/*Candida utilis*, cellulase + protein 3239
 aflatoxin B1 degradation, aflatoxin R0 8558
 alpha,omega-alkanedicarboxylic acids/alpha,omega-alkanedicarboxylic acid dimethyl esters 1231
 Avicelase 6873
 barley flour inoculant 788
 benzisothiazolin-3-one derivatives 534
 benzisothiazolinone + quaternary ammonium compound 4687
 biological control, *Armillaria mellea*, heat treatment/drying, soil/Citrus 1997
 biological control, *Sclerotium rolfsii*, cotton, S-ethyl dipropylthiocarbamate 6354
 biological control, *Sclerotium rolfsii*, white clover, S-ethyl dipropylthiocarbamate 6354
 biological control, *Verticillium dahliae*, mushroom 3564
 cellobiose 3054
 cellulase 20 5056 5057 5926 5932 6873 6874 6875 7613 7615
 cellulase, activated sludge 6878
 cellulase, *Aspergillus niger*/*Aspergillus phoenicis* beta-glucosidase, cellulose, glucose 5068
 cellulase, carboxymethylcellulose medium 3948
 cellulase, cellulose 5927
 cellulase, cellulose continuous culture 6877
 cellulase, cellulose degradation, glucose 8453
 cellulase, cellulose degradation, sugar 5925
 cellulase, cellulose, glucose 1644
 cellulase, cellulose hydrolysis 3259
 cellulase, cellulose, sugars 5928
- Trichoderma viride(Contd),**
 cellulase, plate clearing assay 4075
 cellulase, silage 9634
 cellulase, waste cellulose 7616
 cellulase, waste cellulose, sugars 5929 5933
 cellulolytic enzymes, cellulose waste 1645
 corn 8635
 Curcuma caesia oil 5567
 enzyme, waste cellulose 2432
 enzymes 9350
 Fomes annosus, wood 6405
 fungicide 2055
 1,4-beta-D-glucan cellobiohydrolase 8364
 beta-1,4-glucan cellobiohydrolase, cellulose hydrolysis, cellobiose 9395
 beta-(1,3)-D-glucanase 3276
 glucoamylase 4090 4091
 glucose, cellulose waste 62
 beta-glucosidase 6873
 guanidine derivatives 8041
 menthylester hydrolase 7639
 mine rubberized ventilation tube 4180
 paper degradation 2551
 plastics degradation 2553
 poly(ethyleneimine S-alkyldithiocarbamates) 5570
 polyvinylchloride building sealant degradation 4279
 protein, cattle manure, animal feed 9615
 protein, cellulase, wheat straw 9347
 protein, cellulose waste, animal protein 3242
 protein, corn residues, animal feed 9611
 road-building material 5507
 rum distillery slops 7701
 soil, cadmium 8018
 soil, carbafuran degradation 10076
 soil, dalapon, dehalogenase 4600
 soil, diuron 7280
 soil, fluometuron 7280
 soil, formalin fumigation 6453
 soil, monosodium methanearsonate 7280
 soil, photodieldrin degradation 2896
 soil, prometryn 7280
 soil, *Rhizobium* 3646
 starch degradation, amylolytic enzymes 4181 4182
 Stereum sanguinolentum, wood 6435
 volatile odour compound 1695
- Trichodermin,**
 protein synthesis 3434
- Trichodorus,**
 tobacco rattle virus, potato, nematocide 7928
 tobacco rattle virus, tobacco 3536
- Tricholoma,**
 microorganisms 2536
- Tricholoma conglobatum,**
 kininase 4094
- Tricholoma matsutake,**
 culture medium 5863 5864
 Japanese stone pine soil 5442
 Sakhalin fir soil 5443
 Sakhalin spruce soil 5443
- Tricholoma pessundatum,**
 pine mycorrhiza, trifluralin 7227
- Tricholoma portentosum,**
 protensterol 5105
- Tricholoma saponaceum,**
 pine mycorrhiza, trifluralin 7227
- Tricholoma portentosum,**
 oil, fatty acids 6827
- Trichomyces,**
 potentiation, *Streptomyces* compound H 645-SY3 9481
 yeasts 2170
- Trichophyton,**
 allucin 7332
 clotrimazole 528
 diaryl-pyridyl-imidazole methanes 4671

Subject index

Trichophyton (Contd),

imidazolyl-*O*-*N*-acetal derivatives 3704
thiocyano xanthate derivatives 2972
triazole derivatives 2960

Trichophyton asteroides,

aculeacins 8175
Gloeophyllum sepiarium oospolactone 2538

Trichophyton equinum,

siccacin 7450

Trichophyton gallinae,

siccacin 7450

Trichophyton granulorum,

pyrano-indole derivatives 7349

Trichophyton gypsum,

dinitro-bithiophene derivatives 8098
glutaraldehyde 5568
silicoorganic amines 530

Trichophyton interdigitale,

aloha-halogenated fatty acid 1255
dinitro-bithiophene derivatives 8098
disinfectant 6726
herbicide A/herbicide B 5741
thiazinium derivatives 3725

Trichophyton mentagrophytes,

actinomycin antibiotic 70591 1359
acylase, 7-aminocycloheptanecarboxylic acid derivatives 2207
alkyltin cyclopropyl derivatives 1260
allicin 7332
alpha,omega-alkanedicarboxylic acids/alpha,omega-alkanedicarboxylic acid diethyl esters 1231
Alpinia officinarum flavonoid 7348
aminocarbonylthioates 1263 1264
alpha-aminolaurophenone/alpha-aminolaurophenone derivatives 5571
2-aminotridecane derivatives 3702
amiprimycin 9124
antibiotic A23187 2239
antibiotic A20641 2241
antibiotic A-26771 1390
antibiotic EM-49 tetramino derivatives 4707
antibiotics 1295
antifungal agent 469
antifungal agent, hydrogen peroxide 2953
antifungal agent, non-woven fibres 8040
4-benzoyloxy-2(1H)-pyridone 9009
bis(propynyloxy)benzenes 8075
3-bromoacetoxy tetrahydrofuran 533
carbamyloxy-benzamide derivatives 4691
N-chlorocarbonyl acid derivatives 529
Curcuma caesia oil 5567
Curcuma zedoaria extract 3695
cycloalkyl-4-oxoquinoline-3-carboxylic acid derivatives 2141
D-3,6-diaminohexanoic acid
2-(carboxymethyl)-2-methylhydrazine 2151
bis(diphenylaminomethane) derivatives 1265
fungicide 1238
hydrazino-pyridine derivatives 2139
imidazole derivatives 2137
imidazolyl-indane derivatives 6512
imidazolyl-tetralin derivatives 6512
imidazolylacetic acid amides 515
iodine disinfectant 8253
isolation medium 10623
nitroperhydropyridodiazepine derivatives 2976
nitrothiazole derivatives 1269
perdeuterated fatty acids 1232
phacidin 10398
phenoxycetamido-nitrothiazole derivatives 2973
phenyl-imidazolyl-fatty acid derivatives 8078
phenyl-indole derivatives 6530
pyridazine-2-oxide derivatives 3932
quaternary ammonium compounds 1535 2145 2146
quinoxaline derivatives 5598

Trichophyton mentagrophytes (Contd),

radiometry 4988
rapamycin 1437
Rumex maritimus extract 3696
S-alkylthiuronium halides 5527
soft contact lens preservative 4700
soil 6423
swimming pool 3143
tetrahydro-cyclopropa(b)naphthalenes 4692
tetramethylene bis(methanethiosulphonate) 4690
thiadiazolo-benzimidazole derivatives 8081
thionosalicylic acid anilide derivatives 3726
triazenoimidazoles 1271
triazole derivatives 2960
veterinary topical products 2970

Trichophyton pedis,

quaternary ammonium phenolate 2907

Trichophyton quinqueanum,

1,3-dioxane-4,6-dione derivatives 9007

Trichophyton rubrum,

aculeacins 8175
Alpinia officinarum flavonoid 7348
alpha-aminolaurophenone/alpha-aminolaurophenone derivatives 5571
2-aminotridecane derivatives 3702
antibiotics 1295
Curcuma zedoaria extract 3695
dinitro-bithiophene derivatives 8098
imidazolyl-indane derivatives 6512
imidazolyl-tetralin derivatives 6512
iodine disinfectant 8253
isolation medium 10623
melanine pigment 5132
nitroperhydropyridodiazepine derivatives 2976
nitrothiazole derivatives 1269
perdeuterated fatty acids 1232
phacidin 10398
phenoxycetamido-nitrothiazole derivatives 2973
swimming pool 3143
thiadiazolo-benzimidazole derivatives 8081

Trichophyton schoenleinii,

alpha-aminolaurophenone/alpha-aminolaurophenone derivatives 5571
2-aminotridecane derivatives 3702
bis(propynyloxy)benzenes 8075
thiadiazolo-benzimidazole derivatives 8081

Trichophyton terrestris,

1-[4-(alkoxyphenoxy)-butyl]-1-ethyl-piperidine bromide 2977
soil 6423

Trichophyton tonsurans,

bis(propynyloxy)benzenes 8075
D-3,6-diaminohexanoic acid
2-(carboxymethyl)-2-methylhydrazine 2151
fungicide 1238
thiadiazolo-benzimidazole derivatives 8081

Trichophyton verrucosum,

alpha-aminolaurophenone/alpha-aminolaurophenone derivatives 5571
2-aminotridecane derivatives 3702
siccacin 7450

Trichoplusia ni,

cell culture, amphotericin B/amphotericin B methyl ester 10325
cell culture, Autographa californica nuclear polyhedrosis virus 4011

Trichorhin A,

Trichoderma, antibacterial agent 10410

Trichosanthus,

snakegourd mosaic virus 1950

Trichosanthus anguina,

Alternaria tenuissima 4415
Sphaerotheca fuliginea 1056

Trichosanthus dioica,

Sphaerotheca fuliginea 1056
watermelon mosaic virus 8673

Subject index

- Trichosphaeria parasitica**,
conifers 3605
European silver fir 2833
- Trichosporon**,
S-adenosylmethionine/methylthioadenosine 871
1687
culture 8292
garlic extract 10149
phacidin 10394
slime, fibreboard industry 10471
- Trichosporon alophilum**,
biomass, butanol 9323
- Trichosporon butanophilum**,
biomass, butanol 9323
- Trichosporon capitatum**,
2-methylthio-5-(3-iodopropargyloxy)-pyrimidin
e 3705
- Trichosporon cutaneum**,
+ *Brevibacterium*, L-lysine 2423
Brevibacterium, L-lysine 9336
cellulase 7617
2-methylthio-5-(3-iodopropargyloxy)-pyrimidin
e 3705
protein, pasta product 3404
slime, fibreboard industry 10471
tests 1593
xylanase 7617
- Trichosporon opalum**,
biomass, butanol 9323
- Trichosporon penicillatum**,
Roquefort cheese 7759
- Trichosporon pullulans**,
cellulase 7617
coli 4163
xylanase 7617
- Trichosporon variabile**,
bakery dust 9172
- Trichosporum cutaneum**,
X-ray microanalysis 10607
- Trichotecolon**,
Trichothecium roseum, apple post-harvest
decay 7185
- Trichothecene**,
see also T-2 toxin
animal feed 972
derivatives, *Fusarium* 975
protein synthesis 3434
- Trichothecenes**,
7808 9688
eukaryotic protein synthesis 6148
Fusarium 2619
Fusarium oxysporum, safflower seeds 7839
Fusarium roseum, animal feed 2620
Stachybotrys 2619
- Trichothecin**,
Trichothecium roseum 240 5766 5767
Trichothecium roseum, apple/pear post-harvest
decay 8750
Trichothecium roseum, apple post-harvest
decay 7184 7185
yeasts 2170
- Trichothecium**,
jute seed, seed dressing fungicide 2825
Trichothecenes 7808
- Trichothecium roseum**,
apple/pear post-harvest decay, trichothecine,
trichotecolon 8750
apple post-harvest decay 1088 7184 7185
betel 1912
Biospyros tomentosa post-harvest decay 8752
paper, fungicide 468
paper, fungicide adaptation 4615
trichothecin 240 5766 5767
triforine 396
- Trichotecolon**,
Trichothecium roseum, apple/pear post-harvest
decay 8750
- Trichoviridine**,
compound 142B, *Trichoderma*, structure 3079
- Trichuris spiralis**,
ginger post-harvest decay 7945
- Trickling filter**,
dairy waste treatment 679
microorganisms, antibiotics, sewage treatment
3-62
sewage treatment 6676
wastewater treatment 3852 6211
- Triclocarban**,
assay, continuous distillation extraction
apparatus 3681
soap, antibacterial agent 4906
- Triclosan**,
assay, continuous distillation extraction
apparatus 3681
bacteriostat, skin 4905
soap, antibacterial agent 4906
- Tridecane**,
degradation, *Mucorales* 10106
- Tridemorph**,
fungicide, plant protection 5417
wheat leaf microflora 379
- Triethanolamine oleate**,
+ framycin, potentiometry 10309
- 5-Trifluoromethyl-2-deoxyuridine**,
vaccinia virus 2966
- Trifluoromethyl**,
phenyl-3-(3',5'-dicyanophenyl)urea,
bactericide/fungicide 2140
- Trifluoromethylimine-benzo-heterocycle**,
derivatives, fungicide, plant protection
9979
- bis-Trifluoromethylimino-imidazolone**,
derivatives, fungicide, plant protection
8815
- 5-Trifluoromethyluracil**,
vaccinia virus 2966
- Trifluorothymidine**,
derivatives, vaccinia virus 2966
- Trifluralin**,
Aphanomyces euteiches, pea 6353 7968
degradation, soil microorganisms 10080
pine mycorrhiza 7227
- Trifolium**,
+ *Rhizobium*, nitrogen fixation 5488
+ *Rhizobium*, nitrogen fixation, acetylene
reduction assay 7272
+ *Rhizobium trifolii*, nitrogen fixation,
acetylene reduction assay 2882
+ *Rhizobium trifolii*, nitrogen fixation,
nodulation 5492
+ *Rhizobium trifolii*, nodulation/nitrogen
fixation 450
clover yellow edge agent, leafhopper 262
root hair branching, *Rhizobium trifolii* 4584
- Trifolium africanum**,
+ *Rhizobium trifolii*, nitrogen
fixation/nodulation 2079
- Trifolium alexandrinum**,
+ *Rhizobium trifolii*, nitrogen fixation,
nodulation 5492
damping-off fungi 9762
Leptosphaerulina trifoli 6186
- Trifolium ambiguum**,
+ *Rhizobium trifolii*, nitrogen fixation 6445
Myrothecium verrucaria 6189
- Trifolium batmanicum**,
+ *Rhizobium trifolii*, nitrogen fixation,
nodulation 5492
- Trifolium brachycalycinum**,
+ *Rhizobium trifolii*, nitrogen fixation,
nodulation 5492
- Trifolium burchellianum**,
+ *Rhizobium trifolii*, nitrogen
fixation/nodulation 2079
ruoese leaf curl disease, bacterium-like
organism 261
- Trifolium echinatum**,
+ *Rhizobium trifolii*, nitrogen fixation,
nodulation 5492

Subject index

- Trifolium glomeratum**,
+ Rhizobium trifolii, nitrogen fixation,
nodulation 5492
- Trifolium hybridum**,
bean yellow mosaic virus 3461
subterranean clover red leaf virus 3461
- Trifolium pauciflorum**,
+ Rhizobium trifolii, nitrogen fixation,
nodulation 5492
- Trifolium pratense**,
+ Rhizobium 4581
+ Rhizobium meliloti, nitrogen fixation, soil
pH 10065
bean yellow mosaic virus 3462 9759
Botrytis cinerea, pterocarpin/isoflavone
1846
clovers yellow type disease, mycoplasma-like
organism, Cirsium oleraceum 4295
clovers yellow type disease, mycoplasma-like
organism, Matricaria inodora 4295
clovers yellow type disease, mycoplasma-like
organism, Plantago media 4295
Fusarium roseum 6174
maackiain, Helminthosporium
carbonum/Stemphylium botryosum/Stemphylium
sarcinaeforme 4496 4497
medicarpin, Helminthosporium
carbonum/Stemphylium botryosum/Stemphylium
sarcinaeforme 4496 4497
Myrothecium verrucaria 6189
peanut stunt virus 3462
pterocarpin phytoalexins, fungal
transformation 3463
resistance, Colletotrichum trifolii 9927
rugose leaf curl disease, bacterium-like
organism 261
Sclerotinia sclerotiorum,
pterocarpin/isoflavone 1846
white clover mosaic virus 3462
- Trifolium repens**,
+ Rhizobium trifolii 4585
+ Rhizobium trifolii, nitrogen fixation 449
+ Rhizobium trifolii, nitrogen fixation,
nodulation 5492
alfalfa mosaic virus 8607
bean yellow mosaic virus 9759
clover yellow mosaic virus 9760
clover yellow vein virus 8607
cymbidium ringspot virus 6163
Fusarium roseum 6174
mycorrhiza 4569
Myrothecium verrucaria 6189
peanut stunt virus 8607
Rhizobium trifolii, nodulation/nitrogen
fixation 2887
rugose leaf curl disease, bacterium-like
organism 261
Sclerotium rolfsii, biological control,
Trichoderma viride, S-ethyl
dipropylthiocarbamate 6354
white clover mosaic virus 8607
- Trifolium semipilosum**,
rugose leaf curl disease, bacterium-like
organism 261
- Trifolium spumosum**,
+ Rhizobium trifolii, nitrogen fixation,
nodulation 5492
- Trifolium subterraneum**,
+ Rhizobium trifolii 4586
+ Rhizobium trifolii, immunodiffusion,
streptomycin-resistance 5493
+ Rhizobium trifolii, nitrogen fixation,
acetylene reduction assay 2882
+ Rhizobium trifolii, nitrogen fixation,
nitrate 8027
+ Rhizobium trifolii, nodulation/nitrogen
fixation 2884 2885
Kabatiella caulivora 6185
seed, + Rhizobium 8904
- Trifolium subterraneum(Contd)**,
subterranean, + Rhizobium trifolii,
nodulation/nitrogen fixation 2884
- Triferine**,
benzimidazole-tolerant Sclerotinia
fructicola, peach 8798
Diplocarpon rosae, rose 2806
fungicide 3573
fungicide, plant protection 396 2813 2814
7212
fungicide, plant protection, fungal
resistance 3572
Fusarium oxysporum, wheat 2801
Podosphaera leucotricha, apple 3586
seed treatment, Erysiphe graminis hordei,
barley 2826
Sphaerotheca fuliginea, cucurbit 4491
Venturia inaequalis, apple 3586
- Triglyceride**,
Aspergillus flavus, aflatoxins 9701
assay, microbial lipase 3290
Escherichia coli, fatty acids 5888
Scleroderma aurantium 4033
- Trigonopsis variabilis**,
Curcuma zedoaria extract 3695
- Trigonella corniculata**,
seed, fungi 1017
- Trigonella foenum-graecum**,
aflatoxins 9703
Rhizobium, nodulation, subamycin 2886
Rhizoctonia solani 1018
rhizosphere fungi 2064
rhizosphere/rhizoplane fungi, subamycin 2863
seed, Aspergillus flavus 1838
seed, fungi 1017
seed, Rhizobium 4589
- Trigonopsis variabilis**,
Tween 80 10624
- 3,4,5-Trihydroxy-7-methoxy-2-methylanthraquinone**
Alternaria porri 9472
- Trimethoprim**,
6501
antibacterial agent 6546 10149 10150
mutagen, Streptococcus faecium 10144
Neisseria gonorrhoeae 2997 8973
Pseudomonas aeruginosa 10151
resistance, coliforms, food 6028
resistance, Escherichia coli 6474
resistance, Escherichia coli, food 6028
resistance, Klebsiella 6474
resistance, Salmonella 8948
Salmonella 8949
Staphylococcus, anaerobiosis 9044
- Trimethoprim-sulphadiazine**,
antibacterial agent 2939
- Trimethoprim-sulphadimethoxine**,
antibacterial agent 10149
- Trimethoprim-sulphamethoxazole**,
see also Sulphamethoxazole-trimethoprim
+ bacitracin discs, Streptococcus group
A/Streptococcus group B 1579
antibacterial agent 528 2940
antibacterial agent/antifungal agent 4658
Bacteroides fragilis 2166
- Trimethoprim-sulphamethoxyypyrazine**,
antibacterial agent 10150
- Trimethoprim + sulphamide**,
resistance, Escherichia coli 3669
Salmonella 3669
- Trimethoprim + sulphamoxole**,
antibacterial agent 498 2940
- Trimethoprim-sulphaquinoxaline**,
antibacterial agent 10149
- Trimethoprim-sulphonamide**,
Neisseria meningitidis 4724
- Trimethoprim-sulphurdiazine**,
fish feed 7038

Subject index

- Trimethoxybenzoylamino acid,**
derivatives, antibacterial agent/antifungal agent 8095
- N-Trimethylbenzyl ethylenediamine,**
disinfectant 3906
- epsilon-N-Trimethyllysine deaminase,**
Neurospora crassa 4111
- 2,4,6-Trinitrotoluene,**
bacterial degradation 123
- Trinopal AN,**
fluorescent microscopy, *Corynebacterium insidiosum*, alfalfa 6773
- Triorganolead compound,**
bactericide/fungicide 2129
- Triorganotin compound,**
bactericide/fungicide 2129
- Triphenyl acetate,**
Sclerophthora rayssiae, corn 6356
- Triphenyl chloride,**
Sclerophthora rayssiae, corn 6356
- Triphenyl tetrazolium chloride,**
indicator plate, microbiology 6757
- Triphenylmethyl,**
cephem derivatives 7391
- Triphenyltetrazolium chloride reduction test,**
Mycoplasma pneumoniae 1601
- Triphenyltin,**
Cercospora beticola, sugarbeet, benomyl resistance 5339
- Triphenyltin acetate,**
Colletotrichum gloeosporioides/*Ascochyta caricae*/*Gloeosporium*, papaya 2772
seed treatment, fungi, bean 1859
seed treatment, fungi, soybean 1859
- Triphenyltin hydroxide,**
Neovossia horrida, rice 9961
Sclerotium rolfsii, peanut 9960
sprinkler irrigation system, *Alternaria solani*, potato 7970
- Triple-awn grass,**
rhizosphere bacteria, nitrogen fixation, *Rhizobium/Azotobacter* 2075
- Tripolyphosphatase,**
Neurospora crassa 3324
- Trisaccharide,**
2-0-(beta-D-mannoheptoseglucuronyl)-7-0-(2-amino-2-deoxy-alpha-D-glucopyranosyl)-L-glycero-D-manno-heptose, *Bordetella pertussis* endotoxin 8577
- Tristania conferta,**
Cylindrocladium quinqueseptatum 4535
- Tristearin,**
Aspergillus flavus, aflatoxins 9701
- Tristeza virus,**
Citrus 8662
citrus, aphid 2721
Citrus macroptera 6244
rough lemon 5357
- Triticale,**
nutritive value assay, *Aspergillus flavus* 5855
- Triticaleae,**
resistance, *Gaeumannomyces graminis* 355
- Triticum,**
Alternaria trititina 1038
Alternaria trititina, fungicide 1102
Helminthosporium sativum 1038
Helminthosporium spiciferum 1038
Helminthosporium spiciferum, culture medium 1042
Pseudomonas 4316
Septoria nodorum 1038
- Triticum aestivum,**
+ barley, *Erysiphe graminis hordei* 8620
+ *Rhizobium japonicum*, nitrogen fixation 4596
+ *Rhizobium lupini*, nitrogen fixation 4596
aflatoxins, fermentation 9707
Alternaria, fungicide 2005
- Triticum aestivum(Contd),**
Alternaria trititina 1038 1889 2711 8651
Alternaria trititina + *Helminthosporium sativum* 2711
Alternaria trititina, isolation medium 1040
Aspergillus candidus post-harvest decay, antifungal agent 9962
Aspergillus glaucus post-harvest decay, antifungal agent 9962
barley stripe mosaic virus 4346
Bipolaris sorokiniana 4350
Cephalosporium gramineum 6202
Cercospora herpotrichoides 4315 8652
Cercospora herpotrichoides, fungicide 8797
Cercospora herpotrichoides, soil straw 5334
Chaetomium dolichotrichum 1190
Claviceps purpurea 288 4317
Cochliobolus sativus 270 1811 2712 6235
Cochliobolus sativus, biological control, *Sporobolomyces roseus* 6352
Cochliobolus sativus, fungicide 5420
Cochliobolus sativus, *Fusarium culmorum*, *Fusarium sulphureum*, *Fusarium acuminatum* 6234
Drechslera sorokiniana, biological control 1099 7202
Drechslera sorokiniana, seed treatment fungicide 1120
Drechslera tritici-repentis 4350
Erysiphe graminis, 2-aminopyrimidine derivatives 395
Erysiphe graminis tritici 289 2661 4315 4451 5335 5336 5337
Erysiphe graminis tritici, calixin 4502
Erysiphe graminis tritici, diphenyl pyrazolium derivatives 111
Erysiphe graminis tritici, fungicide 1101
Erysiphe graminis tritici, imidazo-pyrimidine derivatives 4512
Erysiphe graminis tritici, pyrazolium derivatives 2812 3581 4511
fungal diseases 2685
fungal diseases, diallate 169
fungal foot rot/root rot 349
fungal root rot, biological control, soil microflora 371
fungal spores 7106
Fusarium 4315
Fusarium avenaceum 8621
Fusarium avenaceum, soil 7176
Fusarium culmorum 8621 8651
Fusarium culmorum, 2-aminopyrimidine derivatives 395
Fusarium culmorum, biological control 1099 7202
Fusarium culmorum, seed treatment fungicide 1120
Fusarium culmorum, soil 7876
Fusarium culmorum, zearalenone 9723
Fusarium graminearum 1041 8621
Fusarium graminearum, zearalenone 9723
Fusarium nivale 4315
Fusarium nivale, antifungal agent 9962
Fusarium oxysporum, fungicide 2801
Fusarium, phenyl mercuric acetate seed treatment 6378
Fusarium poae 8621
Fusarium, soil 8882
Fusarium, soil straw 5334
Fusarium solani, soil 7876
Fusarium tricinatum 8621
Gaeumannomyces graminis 807
Gaeumannomyces graminis, biological control, soil microflora 368
Gaeumannomyces graminis tritici, biological control, *Phialophora radiculicola* 370
Gaeumannomyces graminis tritici, biological control, soil 369

Subject index

Triticum aestivum(Contd),

grain, preservation, ammonia 1727
 grain, sub-epidermal fungi 9804
 grains, sterigmatocystin, chromatography thin-layer 7834
Helminthosporium sativum 1038 2711 5338 9806
Helminthosporium sativum/Alternaria tenuis 1039
Helminthosporium sativum, antifungal agent 9962
Helminthosporium sativum, seed dressing fungicide 2032
Helminthosporium sativum, soil 7876
Helminthosporium spiciferum 1038
Helminthosporium spiciferum, culture medium 1042
Hymenula cerealis 290
 gamma-irradiation, aflatoxin 3432
 leaf microflora, fungicide 379
Leptosphaeria nodorum 6236
Leptosphaeria nodorum, pycnidiospores, air 4351
 microbial disease 6232
 microbial disease, straw fertilisation/straw burning 1887
 microbial leaf diseases 3488
Neovossia indica, sporulation medium 3200
 nickel fungicide 2012
 nutritive value assay, *Aspergillus flavus* 5855
Ophiobolus graminis 4315
Ophiobolus graminis, soil straw 5334
Penicillium post-harvest decay, antifungal agent 9962
 Phoma, pycnidiospores, air 4351
 phytotoxin, soil microorganisms 1162
 post-harvest decay, fungi 342
Pseudocercospora herpotrichoides 291 4352 4353
Pseudomonas syringae 5333
Puccinia, BAS 3170 F 1109
Puccinia graminis 271 9747
Puccinia graminis tritici 272 292 3489 4319 4754 5335 7895 9773 9810 9811
Puccinia graminis tritici, computer 7102
Puccinia graminis tritici, zinc-maneb 8811
Puccinia persistens 7880
Puccinia recondita 271 1892 1893 2713 6232 7135
Puccinia recondita, 2-aminopyrimidine derivatives 395
Puccinia recondita, diphenylamine derivatives 392
Puccinia recondita, pyrazole derivatives 6368
Puccinia recondita, triazinedione derivatives 1119
Puccinia recondita tritici 293 3490 4355 4357 5335 7895 9773 9810 9811
Puccinia recondita tritici, computer 7102
Puccinia recondita tritici, electron microscopy 4356
Puccinia recondita tritici, fungicide 378
Puccinia recondita tritici, zinc-maneb 8811
Puccinia rubigo-vera tritici, furan-3-carboxamide derivatives 1112
Puccinia striiformis 294 4358 5340 7896 7897 7898
Puccinia striiformis, BAS 3050 F 1109
Puccinia striiformis, fungicide 7971
Puccinia triticina 4315 5341 6237 9812
 resistance, *Alternaria trititica* 7950
 resistance, *Claviceps purpurea* 4450
 resistance, *Erysiphe graminis hordei* 9934
 resistance, *Erysiphe graminis tritici* 1094 1095 3550 4451 4452 5336 5337
 resistance, fungal diseases 2685
 resistance, *Puccinia graminis tritici* 2786 3551 7951 8655 8772 8773 9933
 resistance, *Puccinia recondita* 7135 8773

Triticum aestivum(Contd),

resistance, *Puccinia recondita tritici* 3551 9811 9935
 resistance, *Puccinia striiformis* 5408
 resistance, *Septoria nodorum* 8656 9936
 resistance, *Septoria tritici* 3552 9814 9937
 resistance, *Typhula idahoensis* 5337
 resistance, *Urocystis agropyri* 4453
 resistance, *Urocystis tritici* 2716
Rhizoctonia solani, biological control 1099 7202
Rhizoctonia solani, seed treatment fungicide 1120
Rhizoctonia solani, soil straw 5334
 rhizosphere, *Gaeumannomyces graminis tritici*, fumigation 458
 rhizosphere, microorganisms 4560 8872
 rhizosphere mycoflora 3636
 rhizosphere, nitrogen fixation 4579
 root rot fungi 6233
Sclerophthora macrospora 4335
 seed, antifungal agent 407
 seed, *Helminthosporium rostratum*, biological control 4524
Septoria avenae, fungicide 4488
Septoria avenae triticea 4350
Septoria nodorum 1038 4315 4359 4360 5335 6161 7895 8656 8657 9813
Septoria nodorum, antifungal agent 9962
Septoria nodorum, fungicide 4483 7899
Septoria nodorum, ochraceine 3491
Septoria nodorum, zinc-maneb 8811
Septoria tritici 4359 7899 8658 9814
Septoria tritici, fungicide 1894 4488 7899 9964
 silage, cattle feed 9639
 soil, *Cochliobolus sativus* 2868
 straw, *Chaetomium cellulolyticum*, protein, cellulase 9347
 straw, degradation, soil, acetic acid, phytotoxin 7251
 straw, lignin, bacterial degradation 8459
 straw, *Trichoderma viride*, protein, cellulase 9347
Tilletia caries 1895 4320
Tilletia caries, *Bacillus Tilletia caries* 4525
Tilletia caries, fungicide tolerance 7225
Tilletia caries/Tilletia foetida 1895
Tilletia controversa 1896
Tilletia controversa/Tilletia caries/Tilletia foetida 2714
Tilletia foetida 4320
Tilletia foetida, *Bacillus Tilletia caries* 4525
Tilletia foetida, fungicide tolerance 7225
Tilletia indica 9815
Tilletia laevis 4320
Tilletia tritici 4315 4320
Tilletia tritici, BAS 3191 F 1109
 Typhula + *Fusarium* 9805
Urocystis agropyri 2715 4320 4453
Urocystis tritici 1897 2716 4320
Ustilago, BAS 3191 F 1109
Ustilago nuda 2716 2717 4320
Ustilago nuda tritici, benomyl 2006
Ustilago nuda tritici, carboxin 2006
Ustilago tritici 4315 6238
Ustilago tritici, fungicide seed dressing 5440
 virus disease 1869
 wheat chlorotic streak virus 9803
 wheat spindle streak mosaic virus, soil fungi 8650
 wheat spindle streak virus 6232
 wheat streak mosaic virus 2710
 wheat streak mosaic virus, mite, immunofluorescence 7891
 wheat striate mosaic virus 6231

Subject index

- Triticum durum**,
Bipolaris sorokiniana 4350
Drechslera tritici-repentis 4350
Fusarium nivale 7893
Fusarium roseum 7892 9806
Puccinia graminis tritici 272 7134
 resistance, *Puccinia graminis tritici* 9933
 resistance, *Puccinia recondita tritici* 9933
Septoria avenae triticea 4350
- Triticum monococcum**,
 resistance, *Puccinia graminis tritici* 1985
 resistance, *Puccinia recondita* 1985
- Triticum sphaerococcum**,
Alternaria alternata 1888
- Triticum timopheevii**,
 resistance, *Septoria tritici* 3552
- Triticum vulgare**,
 seed, *Aspergillus flavus* 1838
- Triton X**,
 tobacco mosaic virus, tobacco/bean 5435
- Triton X45**,
 polyethoxyalkyl phenols 10154
Staphylococcus aureus, optical density 10155
- Triton X100**,
 polyethoxyalkyl phenols 10154
Staphylococcus aureus, optical density 10155
- Triuretase**,
Corynebacterium michiganense 1679
- Tropaeolum majus**,
 nasturtium mosaic virus 8708
Pseudomonas aptata 321
- Trophic compound**,
 rhizosphere bacteria 3628
- Trough**,
 drinking water, disinfection, bacteria 8254
- Trout**,
 irradiated/non-irradiated vacuum-packaged,
Clostridium botulinum toxin 7851
 rainbow, aflatoxins assay, corn 9704
 vacuum-packaged, gamma-irradiation,
 microorganisms 5258
- Truffle**,
 food 2594
- Truncospora ochroleuca**,
 trees 9996
- Trunk canker**,
Phytophthora cactorum, coast live oak 8860
Phytophthora cactorum, cork oak 8860
Phytophthora cinnamomi, coast live oak 8860
Phytophthora cinnamomi, cork oak 8860
Phytophthora citricola, coast live oak 8860
Phytophthora citricola, cork oak 8860
- Trypanosoma cruzi**,
 culture medium, fungicide, 5-fluorocytosine
 9024
- Trypsin**,
Streptomyces griseus, pronase, affinity
 chromatography 50
- Trypsin inhibitor**,
Actinomyces 6962
 bean, *Fusarium solani*/*Fusarium*
culmorum/*Fusarium avenaceum*/*Botrytis cinerea*
 2792
- Trypticase soy agar**,
 heat-stressed *Pseudomonas fluorescens* 9283
- Tryptophan**,
 5-fluor-D,L-, *Claviceps/alkaloid* 5576
- L-Tryptophan**,
Methylobomonas methanolica 2425
 microbial 9501
Proteus rettgeri 6833
Pseudomonas 2425
- Tryptophan synthetase alpha2beta2 complex**,
Proteus mirabilis 51
- Tryptophanase**,
Escherichia coli, *Vibrio cholerae* enterotoxin
 9743
 microbial 9501
Proteus rettgeri, L-tryptophan 6833
- Tryptoquevaline**,
Aspergillus clavatus 7076
 derivatives, *Aspergillus fumigatus* 2539
- Tryptose-sulphite-cycloserine medium**,
Clostridium perfringens selective medium
 7554
- Tsuga heterophylla**,
 decay fungi 5446
Phellinus weirii 1124 7232
- Tsuga mertensiana**,
Phellinus weirii 7232
- Tubaic acid**,
Derris elliptica, antibacterial agent 3682
- Tube-type sampler**,
 water 2322
- Tuber**,
 food 2594
 forest tree ectomycorrhiza 2827
- Tuber melanosporum**,
 food 1715
- Tuberactinomycin**,
 9501
 resistance, *Mycobacterium smegmatis* 6461
- Tubercidin**,
 4157
 derivatives, antitumour antibiotic 5124
- Tuberculin active protein**,
Mycobacterium BCG 3246
Mycobacterium tuberculosis 3246
- Tuberculina maxima**,
Cronartium fusiforme, loblolly pine 2835
- Tuberculosis**,
 acid-fast smear 1576
 capreomycin 5724
 flow microphotometry 4920
 test substance, *Mycobacterium tuberculosis*
 antigen 4959
- Tuberculosis vaccine**,
 3086
- Tuberculostat**,
 alpha-aminocarboxylic amide 8060
 alpha-aminocarboxylic acid derivatives
 8058 8059
 p-aminosalicylic acid derivatives 4650
 benzylamine derivatives 2929
 carbinal derivatives 492
 hydrazinoamine derivatives 8970
 naphthoquinone-4-aryl(aryl)hydrazones
 derivatives 6493
 pyrazine-2-carbothioamide derivatives 2930
 pyrazine-2-carboxylic acid derivatives 8968
 pyrazine derivatives 10134
- Tuberoses**,
Sclerotium rolfsii, fungicide 8799
- Tularemia vaccine**,
 3086
- Tulip**,
 Arais mosaic virus 7182
Fusarium oxysporum, ethylene 6959
Rhizoctonia tuliparum 6214
 tobacco necrosis virus, *Olipidium brassicae*
 4429
 tobacco rattle virus 6313
- Tunicamycin**,
 antiviral agent 4828
Aspergillus, multinuclear giant cells 8196
Penicillium, multinuclear giant cells 8196
- Tunnel**,
 underground, *Thiobacillus*
 ferrooxidans/*Thiobacillus thiooxidans* 4612
- Turbidimetric assay**,
 bacitracin, animal feed, *Streptococcus*
 faecalis 945
 chlortetracycline, animal feed,
Staphylococcus aureus 950
- Turbidimetry**,
Aspergillus niger amylase assay 6863
 cephalosporins, antibacterial agent 8120
 penicillins, antibacterial agent 8120
Streptomyces culture 4001

Subject index

- Turbidity,**
yeast 3204
- Turfgrass,**
Curvularia trifolii 1873
Sclerotinia homoeocarpa, fungicide tolerance 8796
snow mould 1872
snow mould fungi, fungicide 4485
- Turkey,**
see also Poultry
antibacterial agent, rosemary spice extractive 6126
carcass, microbiology 2579
comminuted meat, microbiology 6073
feed, bamtermycins 953
feed, chlortetracycline, *Salmonella typhimurium* 7041
feed, *Methylophilus methylotrophus*, methanol 9617
feed, oxytetracycline, faeces bacteria 7042
feed, penicillin 203
feed, *Streptomyces flavopersicus* fermentation residue 1768
feed, sulphaminoxaline, *Pasteurella multocida* vaccine 204
food poisoning 6071
ochratoxin 234
preseasoned comminuted meat, microorganisms 9574
- Turkey herpes virus,**
avian cell culture, HEPES buffer 4989
Marek's disease vaccine 3091
- Turmeric,**
microorganisms 4223
- Turnip,**
cauliflower mosaic virus 7944
cucumber mosaic virus 7944
radish mosaic virus 7944
turnip mosaic virus 7944
- Turnip crinkle virus,**
sodium dodecyl sulphate 2397
- Turnip mosaic virus,**
Alliaria officinalis 308
statice 330
turnip 7944
- Turnip rape,**
Cochliobolus sativus, wheat 2712
- Turnip yellow mosaic virus,**
Chinese cabbage 7904
RNA 4991
sodium dodecyl sulphate 2397
- Turtle,**
Salmonella 1527
- Tussilago,**
Puccinia 252
- Tussock grass,**
Helminthosporium catenarium 2699
- Tween 20,**
agarose-suspension electrophoresis, *Acholeplasma laidlawii* membrane protein 5897
- Tween 80,**
+ framycin, potentiometry 10309
Bacillus coagulans, lysine 6831
Bacillus megaterium, lysine 6831
differentiation medium, *Serratia*, *Enterobacteriaceae* 10588
tobacco mosaic virus, tobacco/bean 5435
Trigonopsis variabilis 10624
Yersinia enterocolitica isolation medium 4977
- Twig blight,**
Gnomonia platani, sycamore, benomyl 10008
Phomopsis juniperovora, juniper, plant protection 1127
- Tylophora asthmatica,**
Cercospora midnapurensis 999
- Tylosin,**
10221
assay 9033
milk, assay, *Sarcina lutea*/*Bacillus subtilis* 5206
Mycoplasma 5436
Mycoplasma hyopneumoniae 5436
pig feed, swine dysentery 954
resistance, *Staphylococcus hyicus* 9045
Staphylococcus aureus 3002
Staphylococcus hyicus 3002 9045
Streptomyces fradiae 6662
Streptomyces fradiae, C-13 nuclear magnetic resonance spectroscopy 10376
Treponema hyodysenteriae 495
- Typhoid,**
see also *Salmonella typhi*
- Typhoid-paratyphoid vaccine,**
4844
- Typhoid vaccine,**
bacterial endotoxin, *Limulus amoebocyte* lysate test 7844
US opacity standard 3090
- Typhula,**
soil 3632
turfgrass, fungicide 4485
wheat 9805
- Typhula FW,**
bentgrass, fungicide 8795
- Typhula idahoensis,**
wheat, resistance 6337
- Typing,**
bacteriocin 7546
bacteriocin, *Klebsiella* 3978
bacteriocin, *Lactobacillus acidophilus* 7566
bacteriocin, *Lactobacillus casei*/*Lactobacillus plantarum* 3179
bacteriocin, *Lactobacillus helveticus* 7566
bacteriocin, *Lactobacillus jugurti* 7566
bacteriocin, *Lactobacillus sativarius* 7566
bacteriocin, *Serratia marcescens* 10589
bacteriocin, *Streptococcus* 10593
bio-, *Propionibacterium*
acnes/*Propionibacterium*
avidum/*Corynebacterium parvum* 3189
flagellin, *Bacillus subtilis* 7549
phage, *Micrococcus* 6789
phage, *Mycobacterium* 3182
phage, *Mycobacterium bovis* 3183
phage, *Mycobacterium kansasii* 3184
phage, *Mycobacterium tuberculosis* 3185 3186 3187 3188
phage, *Pseudomonas aeruginosa* 4962
phage, *Salmonella enteritidis* 777
phage, *Salmonella heidelberg* 7574
phage, *Salmonella senftenberg* 6788
phage, *Salmonella typhimurium* 8284
phage, *Salmonella typhimurium*, chlortetracycline turkey feed 7041
phage, *Staphylococcus aureus* 9285
phage, *Staphylococcus epidermidis* 6789 10592
phage, *Vibrio cholerae* 8289
proticine, *Proteus* 5849
pyocine, *Pseudomonas aeruginosa* 8281
sero-, *Bacillus cereus*, food 5200
sero-, *Bacillus cereus*, food poisoning 5200
sero-, *Clostridium botulinum* 8580
sero-, *Escherichia coli* 10562
sero-, *Neisseria gonorrhoeae* 7571
sero-, *Propionibacterium*
acnes/*Propionibacterium*
avidum/*Corynebacterium parvum* 3189
sero-, *Pseudomonas aeruginosa* 1575
sero-, *Staphylococcus epidermidis*, hospital 672
sero-, *Streptococcus* 3997
- Tyrocidine,**
Bacillus 9054

Subject index

- Tyrocidine(Contd),**
Bacillus brevis 9159 10411
- Tyromyces albellus,**
 biomass, whey 1621
 protein, whey 1621
- Tyromyces palustris,**
 plywood, preservative 10032
- Tyrosinase,**
 microbial 9501
- Tyrosine,**
 3,4-dihydroxyhomo-, echinocandin B 3805
Arthrobacter 3230
Brevibacterium 3230
 mushroom protein 5236
Mycobacterium 3230
- L-Tyrosine,**
 microbial 9501
- Tyrosine decarboxylase,**
 dairy bacteria 8493
- Tyrosine-inhibitable**
 3-deoxy-D-arabinoheptulosonic
 acid-7-phosphate synthase,
Salmonella typhimurium 3266
- U-25,166,**
 interferon, antiviral agent 8999
- Ubiquinone-9,**
 + ergosterol, *Candida tropicalis*/*Candida*
guilliermondii 2537
- Udder,**
 hygiene, mastitis 1523
 hygiene, mastitis, milk plant 3923
- Udder hygiene,**
 iodophor 3921
 teat dip, antibacterial agent 5808
 teat dip, disinfection 10496
- Udder wash,**
 iodophor, iodine, milk 8475
- UDP-glucose dehydrogenase,**
Escherichia coli 4112
- Ulmus,**
Cephalosporium 5458
Ceratocystis ulmi 5458 6395 8005 8006 10013
Ceratocystis ulmi, carbendazim 6396
Ceratocystis ulmi, chain saw oil 10014
Ceratocystis ulmi, fungicide/herbicide 2044
Ceratocystis ulmi, kiln-dried lumber 10027
Ceratocystis ulmi, methyl-2-benzimidazole
 carbamate 4534
Ceratocystis ulmi, nystatin 4534
Ceratocystis ulmi, plant protection 4533
Ceratocystis ulmi,
 polygalacturonase/cellulase 3619
Ceratocystis ulmi, sanitation 416
 phloem necrosis, mycoplasma-like organism
 10012
 resistance, *Ceratocystis ulmi* 3620 8854
Verticillium 5458
- Ulmus alata,**
 resistance, *Lenzites trabea* 420
- Ulmus americana,**
Ceratocystis ulmi 5459
- Ulmus carpinifolia,**
 resistance, *Ceratocystis ulmi* 3620
- Ulmus hollandica,**
 resistance, *Ceratocystis ulmi* 3620
- Ulmus procera,**
Ceratocystis ulmi 6395
- Ulmus pumila,**
 resistance, *Ceratocystis ulmi* 3620
- Ulmus rubra,**
 resistance, *Ceratocystis ulmi* 3620
- Ulmus wallichiana,**
 resistance, *Ceratocystis ulmi* 3620
- Ulocladium,**
 sunflower seed 1957
- Ulocladium atrum,**
 Leguminosae root/rhizosphere 2865
- Ulocladium botrytis,**
 mine rubberized ventilation tube 4180
- Ulocladium chartarum,**
 mango 6246
- Ultra-high temperature cream,**
Pseudomonas 3384
- Ultra-high temperature milk,**
 microorganisms 3384
- Ultra-high temperature treatment,**
 milk 1783 1784
- Ultracentrifugation,**
 continuous-flow, influenza virus 3205
 continuous-flow, mumps virus 3205
 continuous-flow, Newcastle disease virus
 3205
 continuous-flow, Semliki Forest virus 3206
 continuous-flow, Vaccinia virus 3206
- Ultracentrifuge,**
 RK-, influenza virus 3205
 RK-, mumps virus 3205
 RK-, Newcastle disease virus 3205
 RK-, Semliki Forest virus 3206
 RK-, Vaccinia virus 3206
- Ultracryotomy,**
 bacterial cell envelope, electron microscopy
 10537
- Ultrafiltration,**
 microrganisms, hydrostatic pressure 7534
 water bacteria 4871
- Ultrasonic cavitation,**
 disintegration, microorganisms 8268
- Ultrasonic cleaner,**
 vaccinia virus 3208
- Ultrasonic treatment,**
Bacillus, heat resistance 211
 soil, microorganisms 425
- Ultrasound,**
Aspergillus niger, citric acid 8308
 molasses fermentation, *Saccharomyces*
cerevisiae 9519
Saccharomyces cerevisiae, alcohol 8308
 water disinfection 2330
- Ultraviolet-C-Radiator sterilizer,**
 5600
- Ultraviolet-densitometry,**
 citreoviridin 6142
- Ultraviolet irradiation,**
 + anthracycline antibiotics, bactericide
 5747
Actinomadura carminata, carminomycin 5725
 air sterilisation 3734
 air disinfection 9229
Escherichia coli, continuous-flow system
 7559
 fish hatchery water disinfection 1503
 food packaging sterilisation 9664
Penicillium nigricans,
 N-nitroso-N-methylbiuret 1377
 respirator nebulizer water disinfection 3918
 sewage disinfection 1466
 solar, *Escherichia coli*, wastewater 2303
 toothbrush steriliser 1281
 water 8237
 water disinfection 8238
- Ultraviolet radiation lamp,**
 room air 8246
- Umbelliferae,**
Erysiphe heraclei 7906
Leveillula taurica 7906
- Umbelliferone,**
 derivatives, *Mycobacterium* enzyme assay,
 spectrophotometry 8276
- Uncinula,**
 powdery mildew, plants 5298
- Uncinula necator,**
 grapevine, 2-aminopyrimidine derivatives 395
 grapevine, fungicide 1101

Subject index

- Uncinula necator(Contd),**
 grapevine, triazinione derivatives 1119
 pyridine derivatives 2823
 pyrimidine derivatives 2020
 vine, diphenylamine derivatives 392
- Uncinula salicis,**
 willow 10015
- Undecane,**
 azatricyclo-, antiviral agent 524
- Undecaprenyl pyrophosphatase synthetase,**
 Lactobacillus plantarum 52
- Undecylenic acid,**
 Epidermophyton floccosum 2119
 fungistat 10167
- Undecylprodigiosin,**
 Streptomyces longisporus ruber 879
- Underground tunnel,**
 Thiobacillus ferrooxidans/Thiobacillus
 thiooxidans 4612
- Underwear,**
 hexachlorophene-impregnated, space flight
 4913
- Uni-Yeast-Tek test,**
 yeasts 1593
- Union necrosis,**
 apple 6239
- United States Pharmacopeial pyrogen test,**
 bacterial endotoxin 8575
- Unitop,**
 Pityrosporum canis 5566
- Unitop Topical 0.5% Cream,**
 cuprimyxin, antibacterial agent/antifungal
 agent 2970
- Universal beer agar medium,**
 bacteria, brewing 5169
- Uracil,**
 5-carboxy-, polyoxins/octosyl acid,
 Streptomyces cacaoi 3075
 5-(thiomacetyl)-, antibacterial agent 4660
- Uranium,**
 leaching, Ferrobacillus ferrooxidans,
 Rhodotorula 10090
 leaching, Ferrobacillus/Thiobacillus 466
 leaching, Thiobacillus ferrooxidans 2905
 leaching, Thiobacillus ferrooxidans, iron
 oxidation 8039
- Uraría lagopoides,**
 Cercospora urariarum 999
- Urea,**
 black spruce soil, microflora respiration
 2830
 ecoplant rhizosphere mycoflora 3634
 hydrolysis, yeasts, Berthelot colour reaction
 6795
 nitrogen fixation, Rhizobium japonicum +
 soybean 4595
 nitrogen transformation, soil, biuret 10056
 Rhizobium + soybean, nitrogen fixation 7277
 Scots pine leaf litter, fungi 2035
 soil, microbial proteolytic enzymes 3657
 soil, Verticillium dahliae, cotton 4520
 tropical soil, hydrolysis/nitrification 456
- Urea amidolyase,**
 Candida utilis 6927
- Ureaplasma,**
 differential agar medium 1603
- Ureaplasma urealyticum,**
 antibiotic sensitivity testing 5626
 differential agar medium 1603
 microcalorimetry 3210
 proteins, polyacrylamide gel isoelectric
 focusing 3211
- Urease,**
 allantoinase inhibitor, Pseudomonas
 aeruginosa 4064
 anaerobic bacteria, assay 8271
 Epidermophyton floccosum 7608
 immobilization 4056
 microbial, soil 10043
 soil microorganisms 2087
- Urease(Contd),**
 Streptococcus faecium, culture medium 4974
- Urease test,**
 Mycobacterium 10572
- Uredo,**
 Acacia 2728
- Uredo arachidis,**
 peanut 2662
- Uredo khandalensis,**
 Polygonum glabrum 1074
- Urena lobata,**
 Corynespora callicioidea 4420
- Ureoplasma urealyticum,**
 isolation medium 5801
- Uricase,**
 Hyohomyces, culture medium 866
 Hyphomyces, Scopulariopsis brevicaulis 53
 54
- Uridine,**
 1-N-methyl-pseudo-, Streptomyces platensis
 9449
- Uridine diphosphate,**
 phosphorylation, Streptomyces aureofaciens
 nucleoside diphosphokinase 3295
- Uridine diphosphate N-acetylglucosamine
 pyrophosphorylase,**
 Saccharomyces cerevisiae 5976
- Uridine phosphorylase,**
 Escherichia coli 7667
- Urinary tract bacterium,**
 antibiotic sensitivity testing 4718
- Urinary tract infection,**
 bacteria, gentamicin resistance 6485
 bacteria, selective medium 6765
 culture medium 4931
 dip-stic 4932
 quinoline-3-carboxylic acid derivatives,
 quinoline-3-carboxylic acid, derivatives,
 antibacterial agent 3688
 sulphamethoxazole-trimethoprim 2941
- Urine,**
 antibody-coated bacteria test 10542
 bacterometer microbial monitoring system 10541
 cephalosporins, antibacterial agent 3009
 penicillins, antibacterial agent 3009
 Scots pine leaf litter, fungi 2035
 stained smears, microscopy, urine culture
 3964
- Urine bacterium,**
 antibacterial sensitivity, dip-slide 2931
- Urine culture,**
 cystine-lactose electrolyte deficient medium
 + droplet plating 3963
 stained urine smears, microscopy 3964
- Urocanase,**
 Pseudomonas putida, polyacrylamide gel 4113
 Pseudomonas testosteroni, polyacrylamide gel
 4113
- Urocanic acid,**
 immobilised Micrococcus luteus, histidine
 ammonia-lyase, L-histidine 7630
- Urocystis agropyri,**
 Agropyron scabrum 4320
 Kentucky bluegrass 6211
 perennial ryegrass 4320
 Poa caespitosa 4320
 ryegrass 4320
 wheat 2715 4320 4453
 wheat, resistance 4453
- Urocystis occulta,**
 rye 4320
- Urocystis tritici,**
 Agropyron scabrum 4320
 perennial ryegrass 4320
 Poa caespitosa 4320
 ryegrass 4320
 wheat 1897 4320
 wheat, resistance 2716
- Uromyces,**
 8291

Subject index

Uromyces(Contd),

plant disease, resistance 3455

Uromyces appendiculatus,

bean 4288

bean, BAS 3170 F 1109

bean, 2-iodobenzanilide 3580

Macroptilium atropurpureum 5305

Macroptilium bracteatum, resistance 5305

Macroptilium lathyroides, resistance, Oidium,

Macroptilium atropurpureum 5305

N-phenyl maleic imide derivatives 393

Vigna sesquipedalis 267 3473 4313 4314

Uromyces ciceris-arietini,

gram, phyllosphere fungi 3465

Uromyces eragrostidis,

goose grass 8593

Uromyces fabae,

broad bean, cold treatment 9949

Uromyces phaseoli,

bean 1242

bean, aminomethylenemalononitrile derivatives 3578

bean, antibiotic A-2315 623

bean, cold treatment 9949

bean, ethylene 9758

bean, phthalimide derivatives 2815

bean, thioallophanate derivatives 391

chlorodicyano benzene organosulphur

derivatives, plant protection 5595

cowpea 4305

cowpea, haustorial neckband, Casparian strip 4700

bis(diphenylaminomethane) derivatives 1265

oxadiazolidine-3,5-dione derivatives 1115

snap bean, fungicide 2798

triazolo-benzothiazole derivatives, plant protection 7216

triazolyl-phenyl-phenoxy-3,3-dimethyl-butan-2

-one, plant protection 8817

Vigna capensis 2662

Uromyces scillarum,

Scilla hyacinthiana 2662

Uromyces setariae-italicae,

Italian millet 3481

Panicum typheron 8593

Uromyces tenuiculis,

Sporobolus diander 997

Uromyces viciae-fabae,

broad bean, pyrazole derivatives 6368

Uromyces vignae,

cowpea, resistance 7194

Uroporphyrin III,

delta-aminolaevulinic acid, Chromatium

vinosum 5154

Uroporphyrinogen III,

vitamin B12, Propionibacterium shermanii 6951

Urospermum picroides,

alfalfa mosaic virus 338

cucumber mosaic virus 338

Ursolic acid,

antibacterial agent/antifungal agent 6532

US opacity standard,

bacterial vaccines 3090

Usnea,

2-O-demethylpsoromic acid 5023

Usnic acid,

Staphylococcus 1228

Streptococcus 1228

Ustilaginoides virens,

rice, resistance 2703

Ustilago,

barley, BAS 3191 F 1109

benzamide derivatives, plant protection 4508

triazino-benzimidazole derivatives, plant protection 3588

wheat, BAS 3191 F 1109

Ustilago avenae,

barley 4320

Ustilago avenae(Contd),

benzimidazole derivative +

2-(thiocyanomethylthio)-benzothiazole seed treatment fungistat, plant protection 9994

bis-trifluoromethyl-imine-imidazolone

derivatives, plant protection 5429

fluotrimazole 385

oat 1877 4315 4320

triadimefon 385

Ustilago bullata,

microscope growth chamber 9298

rescue grass 1675

Ustilago hordei,

barley 2690 3479 4315 4320

oat 4320

plant disease 2659

Ustilago kolleri,

oat 9794

oat, resistance 9794

Ustilago maydis,

corn 1020 2697 8638

corn, resistance 2783 9930

esterase, cephalosporins 8132

fungicide resistance 5001

2-iodobenzanilide 2797

plant disease 2656

triadimefon 3573

triadimefon resistance 3572

triarimol 3573

triarimol resistance 3572

triforine resistance 3572

Ustilago nigra,

barley 5318

Ustilago nuda,

barley 4315 4320 8630

barley, furan-3-carboxamide derivatives 1112

benzimidazole derivative +

2-(thiocyanomethylthio)-benzothiazole seed

treatment fungistat, plant protection 9994

organic compounds, barley seed treatment 6377

wheat 2716 2717 4320

Ustilago nuda tritici,

wheat, benomyl 2006

wheat, carboxin 2006

Ustilago scitaminea,

plant disease 2656

sugarcane 3487

sugarcane, plant protection 5332 6336

sugarcane, resistance 3549

Ustilago striiformis,

Kentucky bluegrass 6211

Kentucky bluegrass, resistance 6211

Ustilago tritici,

benzimidazole derivative +

2-(thiocyanomethylthio)-benzothiazole seed

treatment fungistat, plant protection 9994

wheat 4315 6238

wheat, fungicide seed dressing 5440

Ustilago vilfae,

Sewon grass 9802

Ustilago zeae,

corn 4315

corn, resistance 5407

cis-Vaccenic acid,

Escherichia coli triglyceride 5888

Vaccine,

1605 5768

bacterial endotoxin, Limulus amoebocyte

lysate test 7846

human 9305

lyophilisation, rapid freezing apparatus 540

lyophilised, residual moisture evaluation,

Karl Fischer method 656

Subject index

- Vaccine (Contd),**
 oral, antigens, countercurrent immunoelectrophoresis 3083
 quality control 10414
 tissue culture 789
 tissue culture, antiviral agent, thioxanthene bis-basic ketones 1248
 tissue culture, antiviral agent, xanthene/xanthenone bis-basic ketones 1249
 viral 9309
 virus 10415
- Vaccines: Animal,**
 668, 669, 1450, 2287, 3091-3093, 3837-3839, 4845, 4846, 5772, 5773, 6667-6669, 7459-7461, 8202, 8203, 9165-9171, 10429-10432
- Vaccines: General,**
 655, 656, 1446, 2276-2278, 3083, 5768, 6663-6665, 8201, 10414, 10415
- Vaccines: Human,**
 657-667, 1447-1449, 2279-2286, 3084-3090, 3818-3836, 4831-4844, 5769-5771, 6666, 7458, 9162-9164, 10416-10428
- Vaccinia virus,**
 acridine derivative 1250
 adamantane derivatives 4680
 aminophenyl-adamantane derivatives 2963
 2,2-anhydro-1-beta-D-arabinofuranosylcytosine acyl derivatives 5588 5589
 antiviral agent, persistent infection cell culture test 3711
 antiviral agent, plaque reduction test 3711
 1-beta-D-arabinofuranosylcytosine acyl derivatives 5588 5589
 caffeic acid 8997
 carbazole derivatives 8090
 cell culture 10640
 continuous-flow ultracentrifugation 3206
 cytotoxin, HeLa cell culture 5282
 3-deazaguanine/3-deazaguanosine/3-deazaguanyl ic acid 10183
 dihydroxyanthraquinone derivatives 7342
 disinfectants 1241 6736
 DNA, rifampin 4774
 formaldehyde 5523
 glycoprotein 6850
 interferon + adenine arabinoside/hypoxanthine arabinoside/adenine arabinoside 5-monophosphate 5584
 isatin-beta-thiosemicarbazone derivatives 3717
 protein, polyacrylamide gel electrophoresis 10641
 purine sugar derivatives 1245
 quinazolinone derivatives 4684
 resistance, formaldehyde 5523
 theophylline derivatives 8091
 trifluorothymidine derivatives 2966
 ultrasonic cleaners 3208
 zonal centrifugation 10641
- Vaccinium angustifolium,**
 Pucciniastrum goeppertianum, balsam fir 8000
- Vaccinium ashei,**
 Cercospora 9850
- Vaccinium australe,**
 post-harvest decay, Alternaria/Botrytis cinerea/Gloeosporium 2764
- Vaccinium corymbosum,**
 Godronia cassandrae 4373
 Monilinia vaccinii-corymbosi 9851
 post-harvest decay 5398
- Vaccinium myrtilloides,**
 Pucciniastrum goeppertianum, balsam fir 8000
- Vacuum process,**
 alcoholic fermentation, Saccharomyces cerevisiae 9502
- Vacuum-packaged bacon,**
 nitrate curing 5256
- Vacuum packaging,**
 meat 966
- Valdensia heterodoxa,**
 beech 1155
- Valeric acid,**
 silage 7044
- Validomycin,**
 9501
- Validomycin A,**
 2171
- Validomycin E,**
 2171
- Valine,**
 Arthrobacter 3230
 Brevibacterium 3230
 Enterobacteriaceae 5895
 Mycobacterium 3230
 Swiss stone pine rhizosphere microorganisms 7229
- D-Valine,**
 Streptomyces parvulus, Actinomycin 10347
- L-Valine,**
 Actinomycetes, actinomycin C 4790
 Streptomyces parvulus, Actinomycin 10347
- [1-Valine]-malformin,**
 enantio-, antibacterial agent 3592
- enantio-[1-Valine]malformin,**
 antibacterial agent 4655
- Valinomycin,**
 antibacterial agent 652
 bis-derivatives 4829
 Raman spectroscopy 8197
 Raman spectroscopy 8198
 structure, nuclear Overhauser effect 4830
- Valsa,**
 8291
- Valsa sordida,**
 aspen 2043
- Valsa vinea,**
 aspen 2043
- Valseutypella tristicha,**
 antibiotics 9026
- Valve,**
 bottom outlet, glass fermenter 4919
- Vancomycin,**
 10221
 + amikacin 4794
 + aminoglycoside antibiotic, Streptococcus group D 5634
 + aminoglycoside antibiotic, Streptococcus viridans 5634
 + protein SP127, Pseudomonas aeruginosa 8335
 antibacterial agent 3817 6546
 carbon 13 nuclear magnetic resonance spectroscopy 7457
 dental plaque/dental caries 747
 Fusarium solani 10247
 hydroxypropyl methylcellulose artificial tear solution 4712
 Propionibacterium acnes 5630
 proton magnetic resonance spectroscopy 8199
 resistance, Staphylococcus aureus L-form 3750
 Staphylococcus, anaerobiosis 9044
 Staphylococcus aureus 2169
 Streptococcus group D 5634
 Streptococcus mutans 552
 Streptococcus viridans 5634
 Streptomyces orientalis, antibacterial agent 3082
- Vanilla slices,**
 bacteriology 8514
- Vanillic acid,**
 degradation, Rhizobium 6021
- Vapour,**
 Rhizoctonia solani, cauliflower 1103
- Varicella virus vaccine,**
 10421 10422 10423

Subject index

- Varicella-zoster antibody**,
indirect haemagglutination test 3209
- Varicella-zoster virus**,
cell culture 793
- Variola virus**,
disinfectants 1242
- Veal**,
carcass, *Salmonella* 1521
- Vega**,
disinfectant, bactericide/fungicide 9232
- Vegetable**,
canned, hygiene, *Geotrichum* 9593
dehydrated 6129
frozen, microorganisms 3406
frozen, microorganisms, automated impedance 9594
Geotrichum candidum maceration, protein 4221
low-pressure air evacuation, preservation 3422
microorganisms, pesticide degradation 1758
patulin 8571
Penicillium expansum post-harvest decay, patulin, gamma-irradiation 3436
poliovirus, sewage sludge/effluent soil disposal 4561
post-harvest decay fungi, hypobaric pressure 7183
post-harvest decay, preservation 349
preservation 8552
preservation, lyophilisation 9653
preservative 1254
quality control 2592
viruses, sewage sludge/effluent spray irrigation 5734
- Vegetable industry**,
effluent, treatment 6699
- Vegetable marrow mosaic virus**,
polyethylene glycol-sodium chloride centrifugation 4014
- Vegetable products**,
high-temperature short-time sterilisation 4248
patulin 8571
- Vegetables**,
sewage effluent/sludge spray-irrigation, *Mycobacterium bovis* BCG 9205
- Veillonella**,
antibiotics 2994
blood agar medium, *Bifidobacterium*, blood agar medium 3956
cephalosporins 3010
chlorhexidine 10152
continuous culture, hydroxyapatite-coated glass beads 6767
penicillins 3010
swine faeces,
culture/isolation/identification medium 4938
- Veillonella alealescens**,
antibiotic sensitivity testing 2165
culture medium 6792
purine degradation 119
- Veillonella parvula**,
antibiotic sensitivity testing 2165
culture medium 6792
- Vein yellowing disease**,
rhabdovirus, *Pittosporum tobira* 3519
- Veitchia merrillii**,
lethal yellowing, mycoplasma-like organism, oxytetracycline 8675
- Velocity gradient centrifuge**,
bacterial distribution 7537
- Veluticeps berkeleyi**,
cypress 5448
- Veneer**,
beech, fungi 7244
- Venezuelan equine encephalitis virus**,
aminophenyl-adamantane derivatives 2963
tilorone hydrochloride 5587
tilorone hydrochloride analogues 5587
- Ventilation tube**,
rubberized, mine, fungi, *Acremonium charticola* 4180
- Venturia**,
ethylimidazole derivatives, plant protection 8814
triazolyl-O,N-acetal derivatives, plant protection 394
- Venturia inaequalis**,
2-amidocarbonylthiobarbituric acids 2027
4-thiocyano-quinazolines 2024
acetylenic sulphones 512
aminecarbotrithioates 1263 1264
apple 1899 2718 2719 4290 4291 4292 5345 5346 5347 9825
apple, 2-aminopyrimidine derivatives 395
apple, benomyl + oil adjuvant 2791
apple, benomyl tolerance 5431
apple, benzimidazole tolerance 3571 7213
apple, diphenyl pyrazolium derivatives 1114
apple, fungicide 2795 2796
apple, pyrazolium derivatives 2312 3581 4511
apple, resistance 4454 5347
apple, *Spilocea pomi* conidia 1898
apple, thiallophanate derivatives 391
apple, tri-2-norbornyltin derivatives 6363
apple, triforine 3586
benzimidazole resistance, apple 398
benzimidazole resistance, plant protection 7204
benzimidazole tolerance, apple 9980
crabapple, resistance 3553
imidazolidine-1,4-dione derivatives 2135
pyridine derivatives 2823
pyrimidine derivatives 2020
Rosaceae 5297
thiazinium derivatives 3725
triazolo-benzothiazole derivatives, plant protection 7216
- Venturia macularis**,
aspen 2046
- Venturia pirina**,
benzimidazole resistance, plant protection 7204
pear 2726
pear, fungicide 2795 2796
pear, thioureidobenzene phosphates 2014
Rosaceae 5297
- Verdamicin**,
2171
1-N acyl derivatives, antibacterial agent 5643
antibacterial agent 3755
Micromonospora grisea 653
- Verdamicin 1**,
antibiotic complex, *Micromonospora grisea*, antibacterial agent 562
- Vermiculine**,
Penicillium vermiculatum, cytotoxin 5999
- Vermiculite burial test**,
wood preservative 422
- Veronaea simplex**,
forest soil 1169
- Veronica incana**,
Sphaerotheca fuliginea 304
- Verruculogen**,
Penicillium paraherquei 1812
Penicillium piscarium 6147
- Versicolin**,
Aspergillus versicolor, *Colletotrichum gloeosporioides*, biological control, jute 8880
soil 8924
- Versicolorin**,
aflatoxin, *Aspergillus parasiticus*, *dichlorvos* 6131
- Versicolorin A**,
6,8-O-dimethyl-, *Aspergillus versicolor*, high-speed liquid chromatography 6146

Subject index

Versicolorin A(Contd),

- 6-deoxy-, *Aspergillus versicolor*, high-speed liquid chromatography 6146
- aflatoxin E1, *Aspergillus parasiticus* 5267

Versicolorin B,

- 6,8-O-dimethyl-, *Aspergillus versicolor*, high-speed liquid chromatography 6146
- Aspergillus versicolor* 1693

Verticicladiella,

- eastern white pine 10004

Verticicladiella wagnerii,

- pinyon 10005
- pinyon pine 3613

Verticillium,

- bis-trifluoromethyl-imine-imidazolone derivatives, plant protection 5429
- bottle gourd seed, seed treatment fungicide 8682
- cotton 1923
- cotton seed 2737
- elm 5458
- peanut 6195
- phospholane/phosphite derivatives 3576
- potato, telone C 8720
- pyridazine derivatives 2019
- soil 3632
- stone fruit trees 9821
- sunflower 9943
- sunflower seed 1957
- tetrazolo-pyrimidine derivatives, plant protection 3584
- tomato, resistance 9946
- triazino-benzimidazole derivatives, plant protection 3588
- wheat rhizosphere 3636

Verticillium albo-atrum,

- 2-amidocarbonylthiobarbituric acids 2027
- alfalfa 1841 9753
- beech 1155
- 4-benzyloxy-2(1H)-pyridone 9009
- eggplant 9846
- formamide derivatives, plant protection 7336
- Norway maple, electrical resistance 8857
- pimento 9940
- pimento, resistance 9940
- pistachio, soil fumigation 5362
- polygalacturonase, plant cell walls 5969
- potato 7164
- potato, soil, barley straw amendment 5415
- soil 5483
- soil, barley straw amendment, potato 5415
- soil fungistasis 7258
- soil, fungistasis, methyl bromide 4610
- sporulation medium 1839
- sugar maple, electrical resistance 8857
- sunflower seed 1957
- tomato 1962 4427 9846 9905
- tomato, ethylene 6361
- tomato, resistance, phenolic compounds 337
- triadimefon resistance 3572
- triarimol resistance 3572
- triflorine resistance 3572
- triorganotin compounds/triorganolead compounds 2129

Verticillium candidulum,

- beech 1155

Verticillium cinerescens,

- carnation, benomyl 2022

Verticillium dahliae,

- + Meloidogyne javanica, tomato 4428
- brinjal 1048 1049
- brinjal, fungicide 4489
- cotton 4370 4465
- cotton, pectolytic enzymes 6263
- cotton, resistance testing 4465
- cotton, soil urea 4520
- cotton, tolerance 1925
- eggplant 4370
- endo-cellulase, plant disease 2666
- endo-polygalacturonase, plant disease 253

Verticillium dahliae(Contd),

- endo-polygalacturonase, plant disease 2666
- microsclerotia, soil 8887
- olive 9876
- olive, resistance 9876
- pepper 4370
- peppermint 9885
- plant disease/resistance 254 4447
- potato 7166 9885
- potato, resistance 7166
- raspberry 1078
- soil 437 8886
- soil, caesium chloride 1170
- soil, fungistasis 6419
- soil, fungistasis, methyl bromide 4610
- soil, plant disease 6418
- spearment 9885
- sunflower 333 6303 8734
- tobacco 3537
- tomato 4370 8746 8886 9904
- tomato, plant protection 5392
- Verticillium fungicola,**
 - mushroom, chlorthalonil 2017
- Verticillium intertextum,**
 - wood 7242
- Verticillium malthousei,**
 - mushroom, biological control, *Trichoderma viride* 3564
- Verticillium nubilum,**
 - potato, coiled sprout 6289
- Verticillium tenarum,**
 - cellulase 7613
 - paper degradation 2551

Verticillium theobromae,

- banana post-harvest decay 4433

Vesicle,

- Candida tropicalis*, alkane 8942

Vesicular-arbuscular mycorrhiza,

- soil, subsoiling 10038

Vesicular stomatitis virus,

- Actinomyces rimosus* ribonuclease 9001
- antiviral agent 4828
- 3-deazaquanine/3-deazaquanosine/3-deazaquanylic acid 10183
- dihydroxyanthraquinone derivatives 7342
- Liquid antibody microculture plaque assay 10626
- RNA, interferon 7340

Veterinary hygiene,

- 8257

Veterinary topical product,

- antibacterial agent/antifungal agent 2970

Vibramycin,

- see Doxycycline

- Enterobacter aerogenes* 1214

- Escherichia coli* 1214

- Klebsiella pneumoniae* 1214

- Proteus mirabilis* 1214

- Pseudomonas aeruginosa* 1214

- Staphylococcus aureus* 1214

- Streptococcus faecalis* 1214

Vibrio,

- Actinomyces recifensis* lytic enzyme 2480
- antimouyr polysaccharide 8415
- continuous culture, column fermenter 9246
- guar gum, potash mining 2902
- lysine/ornithine/arginine degradation, Nessler's reagent 4936
- methanol 3235
- nitrate reduction, dry sausage 9581
- nuclease 1666
- oil degradation, mercury 4623
- polysaccharide, antitumour agent 72
- river water 2338
- sea water 9227
- seafood, iodine + polyvinylpyrrolidone .967
- shellfish 4217
- sodium acetate medium 7556

Subject index

Vibrio(Contd),

thiosulphate citrate bile salt sucrose agar 3196

Vibrio anguillarum,

fish hatchery water, ultraviolet irradiation 1503

Vibrio cholerae,

antibiotic resistance, R factor 8951
antibiotic sensitivity testing 9046
antibiotic TA 6621
antihistamine 5549
ceftezole 5654
cephalosporin derivative 1329
chloramphenicol 4729
cholerae 5284
cholerae, lincomycin induction 5291
choleraenoid 7860
doxycycline 4729
enterotoxin 996 3453 4017 7099 9735
enterotoxin, *Escherichia coli*, tryptophanase, adenylate cyclase 9743
enterotoxin, structure 247 2644
flagella core 5854
lipopolysaccharide, fatty acids 5987
minocycline 5702
penicillin acylase, assay, phenylacetic acid 5963
phage typing 8289
phosphatidylethanolamine, polymyxin B 3048
plant essential oil 5548
plumbagin 2109
polymyxin B 3048
selective medium 1587
sewage 3878
sulphanilamide-metal complexes 10148
tetracycline 4729
tetracycline resistant, isolation medium 1209
thiosulphate citrate bile salt sucrose agar 3196
toxin 4271 9742
toxin, toxoid 667
vaccine, potency assay, ferric ammonium citrate 3089
wastewater-polluted food 8465

Vibrio cholerae vaccine,

6663 6666
O-antigen standardization 7458
US capacity standard 3090
vibriocidal test 3830

Vibrio coli,

nitrofuryl-vinyl-anilino-quinazoline derivatives 6504
quinazoline derivatives 7037

Vibrio costicolus,

frankfurter 7017

Vibrio fetus,

preservation 4703

Vibrio metschnikovii,

antibiotic 1998 3057

Vibrio parahaemolyticus,

ascorbic acid 1763
citric acid 1763
cold-stressed/heat-stressed, enrichment medium 8290
culture medium, sodium chloride 5203
deoxyribonuclease-indole medium 7541
endotoxin 4284
enterotoxin, ligated rabbit ileum 4285
estuarine water/sediment, petroleum degradation 10109
food 5203 8510
food poisoning 1713
haemolysin, zinc 9744
heat-injured, culture medium 9289
herring 8511
hydrocarbons 479
malic acid 1763
minocycline 5702
oyster, cold sensitivity 9590

Vibrio parahaemolyticus(Contd),

polytropic diagnostic tuber 9259
roe 8511
salted oyster 2587
sea water/food 931
sea water, membrane filter 3901
seafood 7773 8461 8510
seafood, condiments 9588
selective medium 1588
shellfish 4217
spice/spice oil 1763
sublethal cold shock 9589
sublethal heat stress 4188
thiosulphate citrate bile salt sucrose agar 3196
tomato sauce 1763
toxin 4283

Vibrio percolans,

cephamycin-type antibiotic 7399

Vibriocidal test,

Vibrio cholerae vaccine 3830

Vibriolysin,

Vibrio parahaemolyticus, zinc 9744

Vibrionaceae,

glycosidases 3171

Vicia faba,

+ *Rhizobium leguminosarum*, nitrogen fixation 8902
+ *Rhizobium*, nitrogen fixation 448 6903
+ *Rhizobium*, nitrogen fixation, pesticides 6443
+ *Rhizobium*/seed treatment 445
aflatoxins 9703
Botrytis cinerea, leaf mycoflora 2650
Botrytis fabae, leaf mycoflora 2660
broad bean mosaic virus, antiviral agent 8996
broad bean stain virus 259
broad bean stain virus/Echtes Ackerbohlenmosaik-virus 1007
broad bean strain virus 3459
broad bean wilt virus 7104
broadbean mosaic virus, antiviral agent 3591
corn stunt Spiroplasma 9782
Echtes Ackerbohlenmosaik-Virus 3459
fungal spores 7106
Microsphaera penicillata 8606
pea early-browning virus 5306
pea enation mosaic virus 5307
pea leaf roll virus 2667
Uromyces fabae, cold treatment 9949
Uromyces viciae-fabae, pyrazole derivatives 6368
wyerone epoxide, *Botrytis cinerea*/*Botrytis fabae* 373

Victorin,

Helminthosporium victoriae, oat 7126 9793

Victoxinine,

Helminthosporium sativum, plant disease 6160
Helminthosporium victoriae, plant disease 6160

Vigna capensis,

Uromyces phaseoli 2662

Vigna catjang,

seed, *Aspergillus flavus* 1838

Vigna cylindrica,

nodulation 2078
tomato spotted wilt virus, electron microscopy 7176

Vigna marina,

nodulation 2078

Vigna radiata,

1831
tobacco necrosis virus 1831
tobacco ringspot virus 1831
tobacco streak virus 1831
tomato bushy stunt virus 1831
white clover mosaic virus 1831
Xanthomonas phaseoli 9765

Subject index

- Vigna sesquipedalis**,
Uromyces appendiculatus 267 3473 4313 4314
- Vigna sinensis**,
+ Rhizobium, nitrogen fixation 8911
bean yellow stipple virus, electron
microscopy 7868
Cercospora cruenta 6188
cowpea mosaic virus 263 9754
cowpea ringspot virus 6187
Erysiphe polygoni, resmethrin 4500
modulation 2078
Pseudomonas syringae, syringomycin 7864
rhizosphere mycoflora, seed mycoflora 4574
Sclerotium rolfsii 1849
seed, cowpea mosaic virus 3464
seed, fungi 1848
tobacco necrosis virus 1831
tobacco necrosis virus, cold treatment 9949
tobacco ringspot virus 1831
tobacco ringspot virus, cytokinin, kinetin
8608
tobacco streak virus 1831
tomato bushy stunt virus 1831
Uromyces phaseoli, haustorial neckband,
Casparian strip 4300
white clover mosaic virus 1831
- Vigna unguiculata**,
+ Rhizobium, nitrogen fixation 4587 10066
+ Rhizobium, nitrogen fixation, nitrogenase
5494
cowpea mosaic virus 9763
methionine/cysteine/cystine assay,
Leuconostoc mesenteroides 10567
Microsphaera diffusa 3471
nodule protoplasts, Rhizobium, nitrogen
fixation 4588
resistance, Cercospora canescens 5405
resistance, Cercospora cruenta 5405
resistance, Colletotrichum lindemuthianum +
Cercospora cruenta + Uromyces vignae +
Xanthomonas + Corynespora cassicola +
cowpea mosaic virus 7194
resistance, cowpea yellow mosaic virus 5404
Rhizobium, seed dressing fungicide 2029
Rhizoctonia solani, soil 8609
southern bean mosaic virus 1847
Uromyces phaseoli 4305
vesicular-arbuscular mycorrhiza 4570
Xanthomonas vignicola 9765
- Vinavil**,
Ceratomyces fimbriata, plane 5462
- Vinca rosea**,
corn stunt Spiroplasma 9782
periwinkle 3517
Phythophthora parasitica 8714
- Vine**,
Plasmopara viticola, diphenylamine
derivatives 392
Uncinula necator, diphenylamine derivatives
392
- Vinegar**,
Acetobacter 5184
- Vineyard**,
soil microflora, intercalary ray grass
culture 426
- Vinylglycolate**,
antibacterial agent 10237
- Viola tricolor**,
Mycoentropora acerina 6282 7159
- Violet red bile agar**,
coliforms 6770 6771
- Viomellein**,
carbon-13 nuclear magnetic resonance
spectroscopy 6948
Penicillium viridicatum 6000
- Viomycin**,
antibacterial agent 1445
broxone, carbon-13 nuclear magnetic resonance
spectroscopy 8200
- Viomycin(Contd)**,
carbon-13 nuclear magnetic resonance
spectroscopy 8200
conformation 10412
dihydro-, carbon-13 nuclear magnetic
resonance spectroscopy 8200
enzyme-coupled immunoassay 9160
Escherichia coli ribosome 1444
Mycobacterium farcinicum 4648
Mycobacterium phlei 4648
Mycobacterium smegmatis 4648
Mycobacterium tuberculosis 4648
resistance, Mycobacterium tuberculosis 6482
7307
- Viopurin**,
carbon-13 nuclear magnetic resonance
spectroscopy 6948
- Viopurpurin**,
Penicillium viridicatum 6000
- Virazole**,
Bacillus subtilis 7675
potato virus X, tobacco 7985
- Virescence**,
mycoplasma-like organisms, Delphinium,
electron microscopy 4387
- Viresenoside D**,
Acremonium luzulae, structure 6963
- Viresenoside E**,
Acremonium luzulae, structure 9485
- Viresenoside H**,
Acremonium luzulae, structure 6963
- Viresenoside L**,
Acremonium luzulae, structure 9485
- Virginiamycin**,
3002
antibacterial agent, animal feed 2275
chicken feed, residues 4230 7783
M factor acetylation, Staphylococcus aureus
9161
pig feed 9631
Staphylococcus aureus 3002
Treponema hyodysenteriae 495
- Virginiamycin S**,
derivatives, antibacterial agent 10413
- Viricide**,
air, ozone + olefin, phage phiX174 8204 8205
disinfectant 4673
Gigasept, Coxsackie virus 6729
Gigasept, hepatitis virus B 6728
- Viridicatumtoxin**,
Penicillium viridicatum, structure 2635
- Viridin**,
yeasts 2170
- Virology**,
794 4026 9309
affinity chromatography 5866
- Virucide**,
ammonia, wastewater sludge, poliovirus 10459
chemical contraceptives, herpes simplex virus
4675
disinfectants 1241
thiophosphoric acid ester amide derivatives,
plant protection 1117
- Virus diseases**,
soybean 6196
- Virus indexing**,
plant disease, Sephadex gel exclusion
chromatography 249
- Virus-infection stimulating factor**,
Chenopodium amaranticolor, tobacco mosaic
virus 8737
Nicotiana glutinosa, tobacco mosaic virus
8737
Phaseolus vulgaris, tobacco mosaic virus
8737
- Virus K vaccine**,
pericardite, duck 669
- Virustat**,
rimantadin, phage 1244

• Subject index

Viscosity,

Saccharomyces cerevisiae cell concentration control 6797

Viscous product,

activated sludge 694

Vitamin,

+ yeast, tablet 806
microbial, zero gravity 4031
waste treatment 5786
waste treatment, bacteria 2313

Vitamin B,

Propionibacterium shermanii, sour milk product 8487

Vitamin B1,

see also Thiamine
antibiotics 2991

Vitamin B2,

antibiotics 2991
Mycobacterium lacticolum, hexadecane 2919

Vitamin B6,

antibiotics 2991
Escherichia coli 9474

Vitamin B12,

assay, Lactobacillus leichmannii 10566
Bacillus badius, alkane 6467
bacterial, methanol 767
fermented milk product, microbiological assay 1731
Klebsiella, methanol 2917 9321
methane bacteria, yeast production waste 8938
Methanobacterium 2529
Micrococcus, alkane 10098
Microcyclus eburneus, methanol 9475
Propionibacterium 1692
Propionibacterium shermanii 76 6950 6951
Propionibacterium shermanii, fermented milk beverage 9544
Propionibacterium shermanii, sour milk product 8487
Protaminobacter ruber 6001
Pseudomonas AM-1, methanol 9321 9475
Streptomyces 9025

Vitamin B12 antimetabolite,

Bacillus cereus, antibacterial agent 9480

Vitamin B group,

microbiological assay, beer, yeast 6016
Micrococcus, alkane 10098
Penicillium digitatum 4032
protein-vitamin concentrate, yeast, food/animal feed 3241

Vitamin C,

analogues, Serratia marcescens 3341
antibiotics 2991

Vitamin D2,

yeast ergosterol 60

Vitamin D3,

antibacterial agent/antifungal agent 10187

Vitamin H,

sludge activated, wastewater treatment 3866

Vitamin K,

Actinomyces olivaceus 2530

Vitamin K2,

Brevibacterium lipolyticum 3342
Oetzkovia turbata 3342

Vitamin K5,

yeasts 2170

Vitamin-protein concentrate,

yeast, food/animal feed 3241

Vitamins,

rhizosphere bacteria 3628

Vitavax,

Alternaria cepulicola, onion 4492
Alternaria solani, potato 5418
Fusarium oxysporum 4484
Fusarium/Rhizoctonia/Sclerotium, peanut 266
Opereulella padwickii 1100
Rhizoctonia solani, cotton 4523
river water, microbial degradation 6023
seed dressing, Ustilago tritici, wheat 5440

Vitavax(Contd),

seed treatment, Pythium ultimum, cotton 9992
seed treatment, Rhizoctonia solani, cotton 8836 9992
seed treatment, Rhizoctonia solani, okra 9993
seed treatment, Sclerotium rolfsii, lentil 4523

Xanthomonas malvacearum, cotton 3595

Vitavax 75W,

Fusarium oxysporum, ginger 2007

Vitex negando,

Alternaria alternata 1837
Colletotrichum 1837
Curvularia lunata 1837
Curvularia tritici 1837
Drechslera 1837
Glomerella cingulata 1837

Vitis,

Agrobacterium tumefaciens 9870
Botrytis cinerea 3512
Botrytis cinerea, benzimidaxoles 4515
Botrytis cinerea, fungicide 5425
Botrytis cinerea, gibberellic acid 2010
Botrytis cinerea, maneb 390
Botrytis cinerea, wine, fungicide 8447
Eutypa armeniaca 7866 9872
Eutypa armeniaca 9871
fruit, Schizosaccharomyces pombe 9513
Fusarium roseum, maneb 390
grapevine 7915
grapevine Bulgarian latent virus 6270
grapevine leafroll virus 7915
grapevine stem pitting virus 9868
Guignardia bidwellii, fungicide 8802
Oidium tuckeri 3512
peach rosette mosaic virus 251
Peronospora, copper fungicide 4504
Peronospora, fungicide 4483
Phomopsis viticola 7917 9873
Phomopsis viticola, fungicide 9966
Pierce's disease 1929
Pierce's disease, Lactobacillus 7152
Plasmopara viticola 314 3513
Plasmopara viticola,
aminomethylenemalononitrile derivatives 3578
Plasmopara viticola,
3-cyanamino-2,6-dinitroaniline derivatives 9976
Plasmopara viticola, 2-cyanoacetamide derivatives 9974
Plasmopara viticola, diphenylamine derivatives 392
Plasmopara viticola, imidazo-pyrimidine derivatives 4512
Plasmopara viticola, triazinedione derivatives 1119
potyvirus 7916
soil microflora, intercalary ray grass culture 426
tomato ringspot virus 6271
Uncinula necator, 2-aminopyrimidine derivatives 395
Uncinula necator, diphenylamine derivatives 392
Uncinula necator, fungicide 1101
Uncinula necator, triazinedione derivatives 1119
virus disease, heat treatment 7965
wine 9514
yellows disease, rickettsia-like organism, nematode 9869

Vitis labrusca,

antiviral agent 4672

Vitis rotundifolia,

Pierce's disease 1929

Vitis rupestris,

court noue virus 9867
grapevine fanleaf virus 8696

Subject index

Vitis rupestris (Contd),

- grapevine fanleaf virus, *Chenopodium quinoa* 1933
- marbure virus 9867
- virus diseases 4390

Vitis vinifera,

- antiviral agent 4672
- Aspergillus niger* 1931
- berries, *Greeneria fuliginea* 2741
- berries, *Pestalotia menezesiana* 2742
- Botrytis cinerea*, resveratrol 1932
- Eutypa armeniaca* 3493
- grape berries 2741
- grapevine, electron microscopy 5374 5375
- grapevine fanleaf virus, *Chenopodium quinoa* 1933
- grapevine leafroll virus 5373
- Greeneria fuliginea* 2741
- Pierce's disease 1929
- post-harvest decay, antifungal agent 5399
- post-harvest decay, antimicrobial agent 4437
- Pseudomonas syringae* 1930

Vitreoscilla,

- drip irrigation system 716

Vivianite,

- Desulfovibrio desulfuricans*, jarosite,
- Thiobacillus ferrooxidans*, soil 2088

Volatile acid,

- Saccharomyces carlsbergensis*, microelements 8436

Volatile compound,

- decomposing corn tissue, soil, *Rhizoctonia solani* 2871
- grain post-harvest decay 5402
- Streptomyces*, antifungal agent 8986

Volatile flavour compound,

- beer 9509

Volatile odour compound,

- microbial 1695
- microorganisms, refrigerated chicken 929

Volatilisation,

- microbial, selenium, soil 8870
- selenium, soil microorganisms 4559

Volutina concentrica,

- tobacco rhizosphere 1165

Volvariella,

- food 2594

Volvariella volvacea,

- food 3409
- mushroom 9601
- protein amino acids 5236

Vomitoxin,

- animal feed 972
- Fusarium culmorum*, animal feed 9722

Vortex,

- soil microorganisms 10081

Vulcanized rubber,

- microbial degradation 122

Vurularia lunata,

- Lawsonia alba* leaf extract 7331

Walker carcinosarcoma 256,

- Proteus mirabilis* lipopolysaccharide 3337

Wall,

- fungi 110

Walleria A,

- Walleria sebi*, structure 9473

Walleria ichthyophaga,

- forage post-harvest decay 8747

Walleria sebi,

- Walleria A*, structure 9473

Wallflower,

- Xanthomonas campestris* 1963

Wallis-Melnich virus concentrator,

- poliovirus, estuarine water 3900

Walnut,

- Aspergillus parasiticus*, aflatoxin 2625
- black, *Cristulariella pyramidalis* 2852 2853
- black, *Gnomonia leptostyla* 2051
- black, *Gnomonia leptostyla*, benomyl 10038
- black, *Gnomonia leptostyla*, fungicide 10016
- black, *Microstroma juglandis* 2051
- black, walnut bunch, mycoplasma-like organism 3622
- English, walnut bunch, mycoplasma-like organism 3622
- Japanese, walnut bunch, mycoplasma-like organism 3622
- Manchurian, walnut bunch, mycoplasma-like organism 3622
- Microstroma juglandis*, fungicide 5465
- Persian, *Erwinia rubrifaciens* 8672
- Persian, walnut bunch, mycoplasma-like organism 3622
- Xanthomonas juglandis*, antibacterial agent 2050

Walnut bunch,

- mycoplasma-like organism, walnut 3622

Wart,

- Synchytrium endobioticum*, potato, resistance 3559 3560
- Synchytrium endobioticum*, potato, resistance, Glynn-Lemmerzahl method 328

Washing machine,

- laundry, sanitation 4892

Washroom,

- hygiene, food factory 3929

Waste,

- see also Sewage and Effluent
- abattoir, antibacterial agent/antifungal agent, cinnamyl phenols 532
- agricultural, *Rhodopseudomonas gelatinosa*, protein 3238
- animal, deodorisation, *Lactobacillus* 1487
- animal, treatment 7472
- animal, treatment, methane + animal feed 6714
- bacterial degradation, methane, scum drag 1183
- baked bean, *Aspergillus foetidus* amylase 8354
- beet, treatment, *Aspergillus niger* 6700
- bovine manure, silage, microbiology 7791
- brewery, *Aspergillus foetidus*, citric acid 7598
- brewery, methane fermentation 10094
- brewery, treatment 1460 4162
- broiler-house litter, silage, sheep feed 7789
- cannery, treatment, activated sludge 6694
- carbohydrate, treatment, activated sludge microflora 6691
- carbohydrate, treatment, activated sludge, polysaccharide 6690
- carbon assay 6754
- carbonisation effluent, activated sludge treatment 685
- cattle dung, fermentation, biogas 9190
- cattle, methane 6459
- cattle slurry, *Salmonella* 2308
- cattle slurry, *Salmonella dublin* 8230
- cattle slurry, treatment, surface aeration, hygiene 6705
- cellulose, *Aspergillus niger*, cellulolytic enzymes 1645
- cellulose, *Aureobasidium pullulans*, protein, food/animal feed 4054
- cellulose, degradation, *Diplodia gossypina*, animal feed 9610
- cellulose, degradation, *Trichoderma viride* cellulase, glucose 8453
- cellulose, *Fusarium solani* cellulase, sugar 5925
- cellulose, glucose, *Trichoderma viride* 62

Subject index

Waste(Contd),

cellulose, high-temperature steam pretreatment, *Aspergillus niger* cellulase, glucose 6876
cellulose, hydrolysis, yeast biomass 6704
cellulose, microbial cellulase 6814
cellulose, microbial degradation, methane 5188
cellulose, microbial protein 6 5898
cellulose, microbial protein, animal feed 3242
cellulose, *Myrothecium verrucaria*, cellulolytic enzymes 1645
cellulose, *Penicillium funiculosum* cellulase, sugar 5925
cellulose, *Saccharomyces cerevisiae*, ethanol/protein 2544
cellulose, *Torulopsis utilis* culture 5862
cellulose, *Trichoderma koningii* cellulase, sugar 5925
cellulose, *Trichoderma viride* cellulase 7616
cellulose, *Trichoderma viride* cellulase, glucose 1644
cellulose, *Trichoderma viride* cellulase, sugar 5925
cellulose, *Trichoderma viride* cellulase, sugars 5929 5933
cellulose, *Trichoderma viride*, cellulolytic enzymes 1645
cellulose, *Trichoderma viride* enzyme, yeast/ethanol/electrical power 2432
cheese whey, microbiology 4205
chicken manure, composting, bacteria 8222
citrus, activated sludge, chicken feed 1764
coliform 3893
composting 1459 2310 3120 3889 9195 9196
composting, hygiene 3114
corn residues, *Trichoderma viride* protein, animal feed 9611
cyanide 2536
dairy, antibacterial agent/antifungal agent, cinnamyl phenols 532
dairy, *Fusarium moniliforme*, gibberellic acid 4117
dairy industry, treatment. 8226
dairy, treatment 679 1461 7740 8223 8224
dairy, treatment, activated sludge 6696
dairy, treatment, *Enterobacter liquefaciens*/Serratia atypique 3115
dairy, treatment, lagoon 4858
dairy whey, treatment 6695
denitrification 3119
distillery, food yeast 6032
effluent, aeration 5790
effluent, ozone disinfection 9198
enterovirus 7485
Escherichia coli 3893
farm-yard manure/liquid manure, soil microorganisms 6451
fermentation industry slops, *Candida utilis* biomass 5886
fermented, animal feed 3413
food, treatment 6024
fruit cannery, yeast 911
gases, deodorisation, compost 8221
high-strength industrial nitrate, fixed-film denitrification 10452
hospital plastic, steriliser 1285
hydrosulphite, treatment, activated sludge 2316
industrial, fixed-film treatment, lactic acid 10453
industrial, toxicity assay, *Pseudomonas* 3107
lignocellulose, microbial protein, animal feed 3242
lignocellulosic, degradation, *Pleurotus ostreatus* protein, cattle feed 10448
liquid cattle manure, treatment 10443
liquid manure, treatment 1455
malting, treatment 1460

Waste(Contd),

manure, fermentation, microorganisms 7487
manure, microbial protein, animal feed 9615
manure, soil, nitrification 6435
methane 474
methane, microorganisms 5785
mycelium, detoxification, antibiotics 3746
non-ionic surfactant degradation, activated sludge bacteria 1709 1710
paper industry, fungal treatment 10450
petroleum, soil bacteria 6460
pig, denitrification 9179
pig slurry, rotating aeration, picornavirus 4857
pig slurry, treatment 661
pig slurry, treatment, surface aeration, hygiene 6703
pig, treatment 10444
polyester fibre industry, non-ionic surfactant, microbial degradation, activated sludge 3861
potato-processing, *Lactobacillus* fermentation, ruminant feed 9613
potato starch, culture medium, *Penicillium digitatum*, protein/biomass 2430
poultry litter, silage, cattle/sheep feed 9637
poultry manure, fermentation, poultry feed 9614
poultry, treatment 680 7478
poultry, treatment, feed/bacterial protein 2314
radiate pine bark condensed tannin, degradation, *Penicillium adametzi* 3372
rotating aeration, *Salmonella* 678
rubber latex effluent, bacterial methane fermentation 690
rum distillery slops, fungi 7701
rum stillage, treatment, anaerobic digestion 10446
Salmonella 1463
sea water pollution 8244
septic tank effluent, denitrification, *Thiobacillus denitrificans* 1464
sewage, coliforms, antibiotic resistance transfer 6473
sewage outfall 676
sewage sludge, land disposal 683
sewage sludge, soil, nitrification 7268
sewage sludge, treatment 1472
sludge dewatering 7491
sludge pyrolysis, activated carbon 677
soybean seed coat, fermentation, methane bacteria, methane, *Aspergillus niger* hemicellulolytic enzyme 10095
Streptococcus 3893
sulphite liquor, yeasts 9322
sunflower seed husks, microbial protein 8340
swine, fermentation, swine feed 3872
swine manure slurry, nitrification/denitrification 1457
tannery effluent, treatment 10449
tomato pulp, silage, cattle feed 6104
tomato pulper, silage, ruminant feed 9640
treatment 701 703 704 706 707 708 709 802 1451 1469 2293 2312 3871 3883 3884 3885 4863 4998 5786 6672 6676 7466 7469 7479 7489 7490 7492 8210 8212 8231 8233 9173 9182 9186 9189 9206 9207 9208 9209 9210 9211 10435 10440 10466
treatment, activated sludge 705 3102 3844 3845 3847 3848 10437 10461 10462 10464
treatment, activated sludge, alum 10439
treatment, activated sludge bacteria, respirometry 3849
treatment, activated sludge, bulking 9192
treatment, activated sludge, bulking control 9193
treatment, activated sludge dewatering 9191
treatment, activated sludge DNA 3867

Subject index

Waste (Contd),

treatment, activated sludge,
Haliscobenobacter hydrossis, *Zoogloea ramigera* 9180
 treatment, activated sludge microorganisms,
 tributyltinfluoride/tributyltin oxide 8217
 treatment, activated sludge, nitrification 2298
 treatment, activated sludge, nucleic acids 9181
 treatment, activated sludge, poliovirus 8229
 treatment, activated sludge + powdered activated carbon 10438
 treatment, activated sludge viscous product 694
 treatment, anaerobic digester 3846
 treatment, anaerobic digestion 6675 7473
 treatment, anaerobic filter 3097
 treatment, animal feed 1476 2596
 treatment, bacterial,
 protein/enzymes/vitamins 2313
 treatment, cattle breeding unit 6706
 treatment, closet 5787
 treatment, coliform, antibiotic resistance, R factor 2305
 treatment, compost bin 720
 treatment, composting 3879 10454 10455 10457 10458
 treatment, composting, carbon dioxide 6686
 treatment, composting privy 3880
 treatment, composting, rapid moisture determination 10456
 treatment, computer 10441
 treatment, denitrification 8269
 treatment, dormant bacteria 3121
 treatment, fermenter 10525
 treatment, fertiliser 9194
 treatment, fuel 9319
 treatment, immersion filter 2317
 treatment, liquor, *Candida utilis*, protein 8341
 treatment, methane 2910 4616 7471 10465
 treatment, methane, protein, glass fermenter bottom outlet valve 4919
 treatment, *Methanobacterium formicicum*, methane 5515
 treatment, microbial film fermenter 3352
 treatment, microbial film reactor 3850
 treatment, microbial methane 2909
 treatment, nitrification 9176
 treatment, oil-flushed toilet 9200
 treatment, oxidation ditch 10442
 treatment, oxidation pond 2296 9177
 treatment, oxygen 7468
 treatment, phenol degradation, *Pseudomonas putida* 3368
 treatment, phosphate, microbial removal 7480
 treatment, *Propionibacterium freudenreichii*/*Butyribacterium rettgeri*/*Acetobacter aceti*, hydrocarbon 2315
 treatment, reusable water 5789
 treatment, *Rhodospirillaceae* 2307
 treatment, rotating disc process 675
 treatment, septic tank 4862
 treatment, sewage oxidation 6674
 treatment, sewage sludge fungal degradation 1465
 treatment, slimicide, 1,3-dichloroacetone oxime acetate + beta-bromo-beta-nitrostyrene 2320
 treatment, sludge 8214
 treatment, sludge scraper 8236
 treatment, soil irrigation 4859
 treatment, stabilisation lagoon 7475
 treatment, submerged biological filter 3096
 treatment, thermophilic anaerobic digestion 7470
 treatment, *Trichoderma viride* cellulase 6878

Waste (Contd),

treatment, trickling filter microorganisms,
 antibiotics 3862
 tree bark, fertiliser/microbial fermentation,
 fertiliser/animal feed 7488
 wet composting 700
 wheat straw, *Chaetomium cellulolyticum*,
 protein, cellulase 9347
 wheat straw, *Trichoderma viride*, protein,
 cellulase 9347
 whey, fermentation, organic acids 4852
 whey, *Kluyveromyces fragilis*, food 6034
 winery, treatment, lagoon 10445
 yeast production, methane bacteria, methane,
 vitamin B12 8938
 Waste tip,
 leachate, microbiology 10451
 Wastewater,
 activated sludge, 3,5-dichlorophenol,
 bacterial toxicity 7481
 activated sludge treatment 1488
 activated sludge, *Zoogloea* 4865
 antibiotic, treatment, antifoaming agent 692
 bacterial endotoxin, *Limulus amoebocyte* assay 1818
 coliform, dye-sensitized photooxidation
 disinfection 9221
 coliform, membrane filter 1506
 cyanide, treatment, activated sludge 687
 3860
 dairy, assay 7477
 dairy industry, food/animal feed 9185
 dairy industry, treatment 10447
 dairy, spray irrigation disposal 3873
 dairy, treatment 3859 8225 9183
 denitrification 3116 3881
 denitrification, *Hyphomicrobium*, methanol 5780
 disinfection, ATP assay 5781
 disinfection,
 chlorination-dechlorination-postaeration
 system 3113
 disinfection, chlorine + halogen salt 7500
 disinfection, quaternary ammonium compound 8239
 disinfection, ultrasound/ozonation 2330
 edible oil industry, treatment 6702
 effluent, re-use 6680
 electrolytic respirometer 6684
 Escherichia coli, glutamate decarboxylase
 test 3112
 Escherichia coli, solar ultraviolet radiation 2303
 fellmongery, treatment, activated sludge 9188
 food industry, treatment 6692 6693
 food pollution, diseases 8465
 industrial, denitrification 9178
 land disposal 3106
 lemon processing, treatment, activated sludge 6698
 meat-packing plant, bacteria 6697
 nitrification 3116
 nitrile/cyanide, treatment, *Nocardia rubropertincta* 1473
 oxethane, microbial degradation 6708
 ozone sterilisation 1471
 paper industry, treatment 4864
 petroleum, microbial treatment 691
 phosphorus removal, *Acinetobacter phosphovor* 10467
 poliovirus, magnetite 3892
 poliovirus, soil 3108
 potato, soil disposal, denitrification 4608
 Rhodotorula glutinis, animal feed 4228
 Salmonella 1463
 sauerkraut brine, treatment, *Candida utilis*,
 Aspergillus niger 6701
 sewage lagoon effluent, reed canarygrass
 irrigation, coliforms 4607

Subject index

Wastewater(Contd),

shellfish processing, treatment 3105
 sludge, poliovirus, heat treatment 2301
 sludge, virucide, ammonia, poliovirus 10459
 soil disposal, viruses 4606
 soil irrigation, bacteria 3874
 soil rapid infiltration, viruses, bacteria 6710
 Streptococcus, membrane filter 1506
 sugar factory, treatment 2299
 tannery, chromium, treatment, activated sludge 9187
 toxicity, microbial assay 2364
 treatment 677 699 1451 1452 1453 1454 1470
 1479 1483 1484 1486 1492 2311 3100 3103
 3117 3122 3123 3852 3853 3854 3855 3856
 3857 3858 3870 4855 4860 4861 4868 5778
 6678 6680 6682 6683 6707 7467 8211 8213
 8234 8235 9175 9212 10436
 treatment, activated carbon 3118
 treatment, activated sludge 1467 1468 1474
 2292 3101 3842 3843 3851 3887 4853 4854
 5775 5776 6673 6677 8215 10463
 treatment, activated sludge, ATP 5777
 treatment, activated sludge + biological filter bed 3886
 treatment, activated sludge, biotin 3866
 treatment, activated sludge, microorganisms, cadmium, cadmium-cyanide 7482
 treatment, activated sludge spirochaete 4866
 treatment, activated sludge, toxic industrial wastes 6703
 treatment, aerated lagoon 2295
 treatment, air-borne viruses 696
 treatment, air pollution, viruses 7484
 treatment, anaerobic filter 9174
 treatment, biofiltration 3098
 treatment, clinoptilolite, regeneration, bacterial nitrification 8218 8219
 treatment, completely mixed oxygen activated sludge 4854
 treatment, composting 10455
 treatment, denitrification 1480
 treatment, effluent 6681
 treatment, hygiene 3864 3865
 treatment, microbial denitrification 6711
 treatment, microbial nitrification 6711
 treatment, microbial protein 3236
 treatment, multiple jet aerator 3882
 treatment, nitrification 1456
 treatment, nitrification,
 Nitrobacter/Nitrosomonas 686
 treatment, oxidation pond 3869
 treatment, pentachlorophenol, microbial degradation 688
 treatment, septic tank 1475 8232
 treatment, slimicide,
 alpha-bromo-p-methylacetophenone +
 1,3-dichloroacetone oxime acetate 10470
 treatment, sodium bicarbonate 7476
 treatment, soil, viruses/bacteria 2302
 treatment, stabilisation pond 3868 7474
 treatment, Zoogloea polymer/activated sludge polymer 693
 vegetable industry, treatment 6699
 viruses 10460

Water,

Aeromonas 6993
 agricultural, antibacterial agent, phosphoramidate 3125
 air conditioning system, antibacterial agent/antifungal agent, epsilon-caprolactam + alkanediamines 2318
 air conditioning system, antibacterial agent, quaternary ammonium compounds 2319
 alkyl benzenesulphonate degradation 4166
 antibacterial agent, penicillins 3753
 antibacterial agent, phosphoramidate 3125
 aquarium, Salmonella 1527
 Azotobacter, membrane filter 3174

Water(Contd),

bacteria, culture, tritiated thymidine 2373
 bacteria, dodecylbenzene sodium sulphonate 6723
 bacteria, dodecylbenzene sodium sulphonate degradation 6723
 bacteria, Nuclepore filter, fluorescence microscopy 9258
 bacteria, Nuclepore filter, fluorescence microscopy/scanning electron microscopy 9263
 bacteria, polytropic diagnostic tuber 9259
 bacteria, radioassay 5800
 bacteria, ultrafiltration 4871
 bacterial count, tetrazolium chloride 7536
 bactericide/fungicide, quaternary ammonium methylene phosphonates 3731
 bottles, Pseudomonas aeruginosa, selective medium 3192
 brewing 4161
 chlorination, indicator microorganisms 1499
 chlorination, sodium dichloroisocyanurate dihydrate tablet 2332
 chlorination, viruses 1500
 chlorine disinfection 6718
 closed-system salmon aquaculture, columnar denitrification 4873
 coliform 3893
 coliform, dye-sensitized photooxidation disinfection 9221
 coliform, membrane filter 1506
 coliform, timed-release capsule method 3972
 coliforms 3876
 coliforms, detection apparatus 6761
 coliforms, membrane filter chamber 6720
 coliforms, membrane filtration 10475
 coliforms, violet red bile agar 6770 6771
 cooling, canned food, chlorine compounds 1780
 cooling tower, antibacterial agent, quaternary ammonium compound 3890
 creek, microorganisms, slimicide 10481
 dairy, sterilisation 6715
 deep sea, microorganisms, sampler 6762
 dental clinic, microbial aggregates 10479
 dental unit, microorganisms 5794
 disinfection 8237 10472 10480
 disinfection, benzotriazine-1,4-dioxide derivatives 2091
 disinfection, chlorine 10477
 disinfection, ozone 5792
 disinfection, quaternary ammonium compound 8239
 disinfection, ultrasound/ozonation 2330
 disinfection, ultraviolet irradiation + sand filtration 8238
 distilled, hospital, Pseudomonas thomasi/Pseudomonas aeruginosa 3129
 distilled, quality, interval plating technique 6755
 drainage, metal industry, microbial purification 5508
 drinking, bacteria, animal trough disinfection 8254
 drinking, bacterial endotoxin, Limulus amoebocyte assay 1818
 drinking, bacterial pollution 3897 7496
 drinking, chlorination 2323
 drinking, chlorine disinfection 6717
 drinking, denitrifying bacteria, nitrate reductase 5962
 drinking, disinfection 10480
 drinking, disinfection, chlorine + halogen salt 7500
 drinking, electrolytic disinfection 7499
 drinking, Escherichia coli, Auto Analyzer method 7729
 drinking, Escherichia coli, bacteria, filtration system 8240
 drinking, indicator bacteria 7497

Subject index

Water (Contd),

drinking, *Klebsiella*, *Enterobacter* 7498
drinking, membrane filtration 4872
drinking, microorganisms 10478
drinking, ozonation 2324
drinking, polluted, coliform/faecal
 Streptococcus 2304
drinking, quality 1501
drinking, *Salmonella* 3898
drinking, *Streptomyces*, starch casein salt
 medium 6791
drinking, viruses, organic flocculation 3130
drip irrigation system, sulphur bacteria 716
enterovirus 9223
enterovirus, gauze pad 6709
Escherichia coli 3893
Escherichia coli, glutamate decarboxylase
 test 3112
estuarine, antibiotic-resistant bacteria
 3136
estuarine, bacteria, Anderson's medium 3135
estuarine, bacteria, carbofuran 4885
estuarine, bacteria, mirex/mirex derivatives
 723
estuarine, bacteria, pesticide 4884
estuarine, bacteria, petroleum degradation,
 numerical taxonomy 10109
estuarine, coliform 721
estuarine, crude/fuel oil degradation,
 microorganisms 478
estuarine, crude oil degradation, biocides
 1C110
estuarine, enterovirus, filtration +
 aluminium hydroxide flocculation 9224
estuarine, enteroviruses 1505
estuarine, microorganisms 1504
estuarine, microorganisms, hydrocarbon
 degradation 1186
estuarine, microorganisms, polychlorinated
 biphenyls 724
estuarine, petroleum-degrading bacteria,
 enrichment medium 7290
estuarine, poliovirus, pleated membrane
 filter 3900
estuarine, *Salmonella*/coliform, membrane
 filter + most probable number test 722
estuarine, *Salmonella* enrichment 7505
estuarine sediment bacteria, oil degradation
 7289
estuarine, sediment, microbial biomass,
 muramic acid assay 7506
estuary, enterovirus, filtration 8243
fish hatchery, disinfection, ultraviolet
 irradiation 1503
flocculation clarification, dispergated
 collector 1590
flower vase, bacteria, hospital hygiene
 10489
food industry, bacteriology 5795
fresh, *Escherichia coli* count, McConkey broth
 3877
fungi, membrane filter 2326
gasoline-polluted, microbial degradation 481
ground-, coliforms, sewage sludge 3111
ground, hygiene 6721
haemodialysis rinsing solution, bacterial
 pollution/hygiene 3128
humidifier, antibacterial agent, quaternary
 ammonium compound 3890
humidifier, antibacterial agent, quaternary
 ammonium compounds 2319
hygiene 3902
ice-covered river, faecal indicator bacteria
 3132
industrial system 3126
industrial system, antibacterial
 agent/antifungal agent, benzene derivatives
 2131

Water (Contd),

industrial system, antibacterial
 agent/antifungal agent, epsilon-caprolactam
 + alkanediamines 2318
industrial system, antibacterial
 agent/antifungal agent, paraldol 3721
industrial system, antibacterial agent,
 2-bromo-2-hydroxyimino-acetophenone
 derivatives 8065 8066
industrial system, antibacterial agent,
 phosphoramidate 3125
industrial system, antibacterial agent,
 quaternary ammonium compounds 2319 3890
industrial system, bactericide/fungicide
 1494 7345
industrial system, bactericide/fungicide,
 benzisothiazolinone + quaternary ammonium
 compound 4687
industrial system, bactericide/fungicide,
 isothiazole derivatives 1268
industrial system, bactericide/fungicide,
 quaternary ammonium methylene phosphonates
 3731
industrial system, bactericide, methylene
 bisthiocyanate 1495
industrial system, chlorination 9213
industrial system, disinfection, chlorine
 10477
industrial system, fibreboard industry,
 microbial slime 10471
industrial system, fungicide/bactericide,
 halocyanacetamide + haloacetic ester 1496
industrial system, fungistat/bacteriostat,
 benzisothiazole-3-one derivatives 534
industrial system, microbial film,
 chlorination 717
industrial system, microbial fouling 10468
industrial system, microbial fouling,
 chlorine 10469
industrial system, microorganisms 8208
industrial system, quality 1501
industrial system, slime-producing coryneform
 bacteria 9214
industrial system, slimicide 3124
industrial system, slimicide,
 alpha-bromo-p-methylacetophenone +
 1,3-dichloroacetone oxime acetate 10470
industrial system, slimicide,
 alpha-chloro-o-acylbenzaldoxime derivatives
 3891
industrial system, slimicide,
 1,3-dichloroacetone oxime acetate +
 beta-bromo-beta-nitrostyrene 2320
industrial system, slimicide, dithiocarbamate
 derivatives 6526
injured coliforms, membrane filtration 1047
irrigation, *Phytophthora parasitica*, *Citrus*
 1902
lake, *amercium*-241, *Aeromonas hydrophila*
 4882
lake, bacteria, membrane diffusion chamber
 4880
lake, bacteria, radioassay 5800
lake, bacteriology 6724
lake, gasoline, microbial degradation 8940
lake, gasoline, microorganisms 8940
lake, *Klebsiella pneumoniae* 4883
lake, microbial degradation 10482
lake, microorganisms, slimicide 10481
lake, nuclear reactor effluent, *Aeromonas*
 4881
lake, polyethoxylate nonionic surfactant,
 microbial degradation 115
lake, *Salmonella* 7504
marine, bacteria, petroleum degradation
 10111
marine, wood degrading microorganisms 7507
microbial ATP, luminescence 1548
microbial pollution, sewage disposal hygiene
 7494 7495

Subject index

Water(Contd),

microbiological sampling system 2363
microorganisms 8208
microorganisms, Kraft lignin degradation 6982
microorganisms, pentachlorophenol 9220
mineral, bacteria 5796
mineral, microflora 7502
municipal, indicator bacteria 7497
nebulizer, respirator, disinfection, ultraviolet radiation 3918
osmotic potential, *Endothia parasitica* 5461
osmotic potential, *Endothia singularis* 5461
osmotic potential, *Endothia tropicalis* 5461
osmotic potential, *Fusarium solani* 5461
ozonation 2329
ozone sterilisation 1471
paper mill, Enterobacteriaceae, nitrogen fixation 1493
periphyton sampler 1497
phage MS-2 + bentonite, chlorine 6519
phage T7 3127
phenol degradation 9528
Phytophthora cinnamomi, lupin baiting 6798
phytoplankton, chlorine/chloramine, sewage chlorination 9226
pig drinking trough, disinfection 3145
poliovirus, aggregation 4869 4870
poliovirus, magnetite 3892
polluted, biological oxygen demand 2333
polluted, dissolved oxygen 2333
polluted, purification 2327
pollution 2414 10435
pond, Klebsiella pneumoniae, m-FC medium 4950
poultry farm, bacteriology 4874
poultry processing plant, microbiology 7493
Pseudomonas aeruginosa, membrane filtration 6719
purification 1486 1498 2293 2328
purification, biological filter 1502
purification/filtration 718
purification, pharmaceutical 9218
purifier 9215 9216 9217
quality 2321
quality control 9219
quality, microbiological indicators 2334
2335 2336 2337
reovirus, aggregation 4869
reservoir, bacteria 4875
reservoir, bacteria, algal organic matter degradation, glucose 5797
reservoir, bacteria, radioassay 5800
reservoir, hygiene 4875
reservoir, microorganisms 5798
reservoir, viruses 4875
reusable, waste treatment 5789
river, bacteria, spontaneous bacteriolysis 10483
river, Coxsackievirus 6722
river, 2,4-dichlorophenoxyacetic acid, microbial degradation 7707
river, Enterobacteriaceae, nalidixic acid selective medium 720
river, fungal spores 3134
river, indicator bacteria 8242
river, microbiological quality 4877 4878 4879
river, microbiology 2338
river, microorganisms 4876 5798
river, microorganisms, slimicide 10481
river, non-ionic surface-active agents, microbial degradation 4175
river, phage 9222
river, phenylamide pesticide, microbial degradation 6023
river, poliovirus 6722
river, pollution, microorganisms 719
river, quality 3133

Water(Contd),

river, sediment, ethylenediaminetetraacetate, microbial degradation 7250
Salmonella 5779
Salmonella, enrichment medium 3894
Salmonella, Rappaport's enrichment medium 10587
salt marsh, microorganisms, toxicants 10072
sampling apparatus 764
scalding tank, heat-resistant bacteria 1530
sea, Alcaligenes, alkane 6463 6464 6465
sea, bacteria 4887 7535
sea, bacteria, continuous culture 5836
sea, bacteria, crude oil degradation 4620 4621
sea, bacteria, hydrocarbon degradation 4620
sea, bacteria, hydrocarbons 479
sea, bacteria, oil degradation, mercury 4623
sea, bacteria, petroleum degradation 480
sea, bacterial counts 9264
sea, crude oil, microbial degradation 4622
sea, enteroviruses 1505
sea, Escherichia coli 725
sea, Escherichia coli count, McConkey broth 3877
sea, hexadecane, fungal degradation, haptachlor 4624
sea, hydrocarbon, bacterial degradation 2912
sea, hydrocarbon, microbial degradation 3661
sea, microorganisms 5004
sea, microorganisms, hydrocarbon 5004
sea, microorganisms, oil degradation 6462
sea, oil, microbial degradation 1185
sea, oil, Serratia marcinorubra 8047
sea, pollution 2340 5003 8244
sea, pollution, bacteria 9227
sea, pollution indicator, Candida ulticans 2339
sea, sediment, microbial biomass, muramic acid assay 7506
sea, sewage chlorination 5782
sea, sewage fertilization 5003
sea, sewage outfall 676
sea, sewage pollution, sea salt 10501
sea, shellfish, yeasts 6086
sea, Staphylococcus 4888
sea, Vibrio parahaemolyticus 931
sea, Vibrio parahaemolyticus, membrane filter 3901
sediment, coliforms, dredging 10454
sewage, peracetic acid disinfection 5783
sewage-polluted, Salmonella, enrichment medium 10476
sewage-polluted, Salmonella, selenite F/Muller-Kauffmann tetrathionate isolation media 5799
shellfish-growing, coliform/Salmonella 188
soda, fungal spores 3695
soil, matric potential, microbial plant disease 7863
soil, microorganisms, oil 5516
soil, nitrogen fixation 5002
soil, nitrogen fixation, Rhizobium + soybean 4595
sterilisation apparatus 2978
stream, leaf litter degradation 9523
stream, nitritotriacetic acid degradation 9523
stream, pesticide degradation 9527
stream, Salmonella 7504
Streptococcus 3893
Streptococcus group D, enrichment/isolation medium 9288
Streptococcus, membrane filter 1506
surface, bacteriolysis 7503
surface, Proteus 3131
surface, Salmonella 1463
swimming pool, antibacterial agent/antifungal agent, epsilon-caprolactam + alkaneamines 2318

Subject index

Water (Contd),

- swimming pool, antibacterial agent, quaternary ammonium compounds 2319 3890
- swimming pool, bactericide/fungicide, isothiazole derivatives 1268
- swimming pool, chlorination, sodium dichloroisocyanurate dihydrate tablet 2332
- swimming pool, chlorinator 8241
- swimming pool, coliform 3899
- swimming pool, disinfection 10480
- swimming pool, disinfection, chlorine + halogen salt 7500
- swimming pool, *Escherichia coli* 3899
- swimming pool, fungi 7501
- swimming pool, microorganisms/hygiene 3143
- swimming pool, *Mycobacterium marinum*, chlorine resistance 2331
- swimming pool, *Staphylococcus* 3899
- swimming pool, *Streptococcus* 3899
- tap, Aquella virus concentrator 3896
- tap, enterovirus, pleated cartridge filter regeneration 6716
- treatment 2402
- tube-type sampler 2322
- virus concentration 5793
- virus, foam fractionation 2325
- viruses, pilot treatment plant 10473
- Water activity,**
 - Aspergillus flavus*, aflatoxin 977
 - Aspergillus nidulans*, sterigmatocystin 977
 - Aspergillus parasiticus*, aflatoxin 977
 - Aspergillus versicolor*, sterigmatocystin 977
 - Bacillus stearothermophilus* heat resistance 6989
 - Byssoschlamys nivea*, patulin 977
 - food 907
 - food preservation 4184 6811
 - meat/meat product 218
 - meat preservation 3224
 - Penicillium expansum*, patulin 977
 - Penicillium urticae*, patulin 977
- Water bed,**
 - hospital, *Pseudomonas aeruginosa*, hypochlorite disinfection 10493
- Water hyacinth,**
 - Alternaria eichhorniae*, toxin 7823
 - Cercospora roomanii* 8745
- Water lily,**
 - Dichotomophthoropsis nymphaearum* 4369
 - Sclerotium* 5395
 - white, *Sclerotium* 8659
- Water potential,**
 - soil, microbial ethylene 8014
- Water rinse sampling,**
 - modified, *Salmonella*, chicken carcass 6072
- Water-sediment system,**
 - denitrification 9225
- Water shield,**
 - Dichotomophthoropsis nymphaearum* 4369
- Water, waste,**
 - see Waste, water
- Watermark disease,**
 - Erwinia salicis*, cricket bat willow, electrical resistance 8862
- Watermelon,**
 - alfalfa mosaic virus 2762
 - Alternaria cucumerina* 1964
 - antiviral agent 8825
 - Colletotrichum lagenarium*, copper compound 2026
 - Colletotrichum lagenarium*, fungicide 6357
 - resistance, *Fusarium oxysporum* 3562
 - Sphaerotheca fuliginea* 1056 9906
- Watermelon mosaic virus,**
 - 5378
 - bottle gourd 8673
 - Cucumis sativus* 4385
 - marrow, aluminium foil 6346 7984
 - marrow, tree bark extracts 5434
 - Trichosanthes dioica* 8673

Watermelon virus complex,

- squash, plant protection 7966
- Wax,**
 - Mycobacterium*, soil/oil 4148
- Wax moth,**
 - Bacillus thuringiensis* insecticide, beecomb 3442
- Waxol,**
 - grape post-harvest decay 4437
- Weather,**
 - soil bacteria 3630
- Web blight,**
 - Rhizoctonia solani*, cowpea, soil 8609
- Weed,**
 - clovers yellow type disease, mycoplasma-like organism 4295
 - eggplant rhizosphere mycoflora 3634
 - rhizosphere, microflora, nitrogen 6407
- Weinmannia silvicola,**
 - Erysiphe carpopphila* 2664
- Welchicin,**
 - Clostridium perfringens* enterotoxin 7854
- Wescodyne,**
 - antibacterial agent, dental plaque 10504
- Western equine encephalitis virus,**
 - acridine derivative 1250
 - cordycepin 4683
 - liquid antibody microculture plaque assay 10626
- Western gall rust,**
 - Endocronartium harknessii*, lodgepole pine 411
 - Endocronartium harknessii*, Scots pine, maneb 2039
- Western hemlock,**
 - Phellinus weirii* 1124
- Wet brewer's grains,**
 - silage 4232
- Wet rot,**
 - Choanephora cucurbitarum*, sesame 8728
- Wetting agent,**
 - Auxarthron reticulatum* spores 9291
- Wetwood,**
 - grand fir, *Fomes annosus*, *Armillaria mellea* 7235
- Wheat,**
 - + barley, *Erysiphe graminis hordei* 8620
 - + *Rhizobium japonicum*, nitrogen fixation 4596
 - + *Rhizobium lupini*, nitrogen fixation 4596
 - aflatoxins, fermentation 9707
 - Alternaria alternata* 1888
 - Alternaria*, fungicide 2005
 - Alternaria tritician* 2711
 - Alternaria tritician* + *Helminthosporium sativum* 2711
 - Alternaria triticina* 1038 1889 8651
 - Alternaria triticina*, fungicide 1102
 - Alternaria triticina*, isolation medium 1040
 - Aspergillus candidus* post-harvest decay, antifungal agent 9962
 - Aspergillus glaucus* post-harvest decay, antifungal agent 9962
 - barley stripe mosaic virus 4348
 - Bipolaris sorokiniana* 4350
 - Cephalosporium gramineum* 6232
 - Cercospora herpotrichoides* 4315 8652
 - Cercospora herpotrichoides*, fungicide 8797
 - Cercospora herpotrichoides*, soil straw 5334
 - Chaetomium dolichotrichum* 1890
 - Claviceps purpurea* 4317
 - Claviceps purpurea* 288
 - Cochliobolus sativus* 270 1891 2712 6235
 - Cochliobolus sativus*, biological control, *Sporobolomyces roseus* 6352
 - Cochliobolus sativus*, fungicide 5420

Subject index

Wheat (Contd),

Cochliobolus sativus, *Fusarium culmorum*,
Fusarium sulphureum, *Fusarium acuminatum*
 6234
 crown rust, *Puccinia graminis tritici* 9933
Drechslera sorokiniana, biological control
 1099 7202
Drechslera sorokiniana, seed treatment
 fungicide 1120
Drechslera tritici-repentis 4350
Erysiphe graminis, 2-aminopyrimidine
 derivatives 395
Erysiphe graminis tritici 289 2661 4315 4451
 5335 5336 5337
Erysiphe graminis tritici, calixin 4502
Erysiphe graminis tritici, diphenyl
 pyrazolium derivatives 1114
Erysiphe graminis tritici, fungicide 1101
Erysiphe graminis tritici, imidazo-pyrimidine
 derivatives 4512
Erysiphe graminis tritici, pyrazolium
 derivatives 2812 3581 4511
 fungal diseases 2685
 fungal diseases, diallate 269
 fungal foot rot/root rot 4349
 fungal root rot, biological control, soil
 microflora 371
 fungal spores 7106
Fusarium 4315
Fusarium avenaceum 8621
Fusarium avenaceum, soil 7876
Fusarium culmorum 8621 8653
Fusarium culmorum, 2-aminopyrimidine
 derivatives 395
Fusarium culmorum, biological control 1099
 7202
Fusarium culmorum, seed treatment fungicide
 1120
Fusarium culmorum, soil 7876
Fusarium culmorum, Zearealenone 9723
Fusarium graminearum 1041 8621
Fusarium graminearum, Zearealenone 9723
Fusarium nivale 7893
Fusarium nivale, antifungal agent 9962
Fusarium oxysporum, fungicide 2801
Fusarium, phenyl mercuric acetate seed
 treatment 6378
Fusarium poae 8621
Fusarium roseum 7892 9806
Fusarium, soil 8882
Fusarium, soil straw 5334
Fusarium solani, soil 7876
Fusarium tricinctum 8621
Gaeumannomyces graminis 9807
Gaeumannomyces graminis, biological control,
 soil microflora 368
Gaeumannomyces graminis tritici, biological
 control, *Phialophora radicola* 370
Gaeumannomyces graminis tritici, biological
 control, soil 369
 grain, preservation, ammonia 1797
 grain, sub-epidermal fungi 9804
 grains, sterigmatocystin, chromatography
 thin-layer 7834
Helminthosporium sativum 1038 2711 5338 9808
Helminthosporium sativum/Alternaria tenuis
 1039
Helminthosporium sativum, antifungal agent
 9962
Helminthosporium sativum, seed dressing
 fungicide 2032
Helminthosporium sativum, soil 7876
Helminthosporium spiciferum 1038
Helminthosporium spiciferum, culture medium
 1042
Hymenula cerealis 290
 gamma-irradiation, aflatoxin 3432
 leaf microflora, fungicide 379
Leptosphaeria nodorum 6236

Wheat (Contd),

Leptosphaeria nodorum, pycnidiospores, air
 4351
 microbial disease 6232
 microbial disease, fertilisation straw/straw
 burning 1887
 microbial leaf diseases 3488
Neovossia indica, sporulation medium 3200
 nickel fungicide 2012
 nutritive value assay, *Aspergillus flavus*
 5855
Ophiobolus graminis 4315
Ophiobolus graminis, soil straw 5334
Penicillium post-harvest decay, antifungal
 agent 9962
 Phoma, pycnidiospores, air 4351
 phytotoxin, soil microorganisms 1162
 post-harvest decay, fungi 342
 processing, *Lactobacillus* 936
Pseudocercospora herpotrichoides 291 4352
 4353
Pseudomonas 4316
Pseudomonas syringae 5333
Puccinia, BAS 3170 F 1109
Puccinia graminis 271 9747
Puccinia graminis tritici 272 292 3489 4319
 4354 5339 7134 7894 8654 8655 9773 9809
Puccinia graminis tritici, computer 7102
Puccinia graminis tritici, zinc-maneb 8811
Puccinia persistens 7880
Puccinia reconita 271 1292 1893 2713 6252
 7125
Puccinia reconita, 2-aminopyrimidine
 derivatives 395
Puccinia reconita, diphenylamine derivatives
 392
Puccinia reconita, pyrazole derivatives
 6368
Puccinia reconita, triazinedione derivatives
 1119
Puccinia reconita tritici 293 3490 4355
 4357 5335 7895 9773 9810 9811
Puccinia reconita tritici, computer 7102
Puccinia reconita tritici, electron
 microscopy 4356
Puccinia reconita tritici, zinc-maneb 8811
Puccinia rubigo-vera tritici,
 furan-3-carboxamide derivatives 1112
Puccinia striiformis 294 4358 5340 7896 7897
 7898
Puccinia striiformis, BAS 3050 F 1109
Puccinia striiformis, fungicide 7971
Puccinia trititica 4315 5341 6237 9812
Puccinis reconita tritici, fungicide 378
 resistance, *Alternaria trititica* 7950
 resistance, *Claviceps purpurea* 4450
 resistance, *Erysiphe graminis hordei* 9934
 resistance, *Erysiphe graminis tritici* 1094
 1095 3550 4451 4452 5336 5337
 resistance, fungal diseases 2685
 resistance, *Puccinia graminis tritici* 1985
 2786 3551 7951 8655 8772 8773
 resistance, *Puccinia reconita* 1985 7135
 8773
 resistance, *Puccinia reconita tritici* 3551
 9811 9933 9935
 resistance, *Puccinia striiformis* 5408
 resistance, *Septoria nodorum* 8656 9936
 resistance, *Septoria tritici* 3552 9814 9937
 resistance, *Typhula idahoensis* 5337
 resistance, *Urocystis agropyri* 4453
 resistance, *Urocystis tritici* 2716
Rhizoctonia solani, biological control 1099
 7202
Rhizoctonia solani, seed treatment fungicide
 1120
Rhizoctonia solani, soil straw 5334
 rhizosphere, *Gaeumannomyces graminis tritici*,
 fumigation 458
 rhizosphere, microorganisms 4560 8872

Subject index

Wheat (Contd),

rhizosphere mycoflora 3636
 rhizosphere, nitrogen fixation 4579
 root rot fungi 6233
 Sclerophthora macrospora 4335
 seed, antifungal agent 407
 seed, *Aspergillus flavus* 1838
 seed, *Helminthosporium rostratum*, biological control 4524
 Septoria avenae, fungicide 4488
 Septoria avenae triticea 4350
 Septoria nodorum 1038 4315 4359 4360 5335 6161 7899 8656 8657 9813
 Septoria nodorum, antifungal agent 9962
 Septoria nodorum, fungicide 4488 7899
 Septoria nodorum, ochracine 3491
 Septoria nodorum, zinc-maneb 8811
 Septoria tritici 4359 7899 8658 9814
 Septoria tritici, fungicide 1894 4488 7899 9964
 silage, cattle feed 9639
 soil, *Cochliobolus sativus* 2868
 straw, *Chaetomium cellulolyticum*, protein, cellulase 9347
 straw, degradation, soil, acetic acid, phytotoxin 7251
 straw, lignin, bacterial degradation 8459
 straw, *Trichoderma viride*, protein, cellulase 9347
 Tilletia caries 1896 4320
 Tilletia caries, *Bacillus Tilletia caries* 4525
 Tilletia caries, fungicide tolerance 7225
 Tilletia caries/Tilletia foetida 1895
 Tilletia controversa 1896
 Tilletia controversa/Tilletia caries/Tilletia foetida 1896
 Tilletia foetida 4320
 Tilletia foetida, *Bacillus Tilletia caries* 4525
 Tilletia foetida, fungicide tolerance 7225
 Tilletia indica 9815
 Tilletia laevis 4320
 Tilletia tritici 4315 4320
 Tilletia tritici, BAS 3191 F 1109
 Typhula + Fusarium 9805
 Urocystis agropyri 2715 4320 4453
 Urocystis tritici 1897 2716 4320
 Ustilago, BAS 3191 F 1109
 Ustilago nuda 2716 4320
 Ustilago nuda tritici, benomyl 2006
 Ustilago nuda tritici, carboxin 2006
 Ustilago tritici 6232
 Ustilago tritici, fungicide seed dressing 5440
 Ustilago tritici, wheat, *Fusarium nivale* 4315
 Ustilago nuda 2717
 virus disease 1869
 wheat chlorotic streak virus 9803
 wheat spindle streak mosaic virus, soil fungi 8650
 wheat spindle streak virus 6232
 wheat streak mosaic virus 2710
 wheat streak mosaic virus, mite, immunofluorescence 7891
 wheat striate mosaic virus 6231
Wheat chlorotic streak virus,
 wheat 9803
Wheat spindle streak mosaic virus,
 wheat, soil fungi 8650
Wheat spindle streak virus,
 wheat 6232
Wheat streak mosaic virus,
 cardamom 2732
 corn 1867 5321
 Eragrostis trichodes 1867
 ginger 2732
 mite, immunofluorescence 7891
 Muhlenbergia frondosa 1867

Wheat streak mosaic virus (Contd),

Muhlenbergia mexicana 1867
 Panicum virgatum 1867
 Soartina pectinata 1867
 Sporobolus asper 1867
 wheat 2710
Wheat striate mosaic virus,
 wheat 6231
Whetzelinia,
 soil 3632
Whey,
 alfalfa, *Rhodotorula* protein 6839
 alfalfa, *Saccharomyces* protein 6839
 Cheddar cheese, wine 2548
 cheese, fermentation, galactose 8489
 cheese, fermentation, *Lactobacillus bulgaricus*, ruminant feed 4226
 cheese, microbiology 4205
 dairy, treatment 6695
 fermented, animal feed 7779
 fermented beverage 892
 food 8489
 hydrolysed, wine, *Saccharomyces cerevisiae* 3357
 lactic acid bacteria 162
 Lactobacillus bulgaricus, lactic acid 8490
 lactose fermentation liquor, lactic acid, reverse osmosis 8491
 lactose hydrolysis, immobilised fungal lactase 9412
 medium, *Propionibacterium shermanii*, porphyrin/corrinoid 4133
 preservative, cinnamyl phenols 532
Saccharomyces fragilis, protein, food/animal feed 3381
 stabiliser 963
 Swiss cheese, culture medium, *Kluyveromyces fragilis* 4004
Trametes versicolor, biomass/protein/beta-galactosidase 1621
Tyromyces abellus, biomass/protein 1621
 waste, fermentation, organic acids 4852
 waste, *Kluyveromyces fragilis*, food 6034
Whey filtrate,
Fusarium moniliforme, gibberellic acid 4117
Whisky,
 107
 aroma composition 5166
White clover mosaic virus,
 bean 1831
 cowpea 1831
 pea 1831
 red clover 3462
 Tillman white clover 8607
 Vigna radiata 1831
White mould,
 Sclerotinia libertiana, sunflower 9943
 Sclerotinia sclerotiorum, bean 8605
White poofret,
 gamma-irradiation preservation 4244 4245
White root rot,
 Corticum galactinum, apple, plant protection 7136
White rot,
 Sclerotinia sclerotiorum, crucifer, polymethylgalacturonase/cellulase 3508
 Sclerotium cepivorum, onion, fungicide 7974
 Sclerotium cepivorum, onion, fungicide seed treatment 7991
White-rot fungus,
 wood 10021
Whitefly,
 bean golden yellow mosaic virus, bean 5302
 chilli leaf curl virus, chilli, insecticide 7964
 golden mosaic, lima bean 5303
 mungbean yellow mosaic virus 1844
 plant disease viruses 4293

Subject index

Whitefly(Contd),

- tomato leaf curl virus, tomato, insecticide 1996
- tomato yellow leaf curl virus, tomato/Datura stramonium 8739
- virus disease, tomato 335

Whooping cough vaccine,

- 3836
- US opacity standard 3090

Wild rice,

- Drechslera oryzae 4344
- Drechslera sorokiniana 4344
- fermentation, bacteria 2549
- Helminthosporium sigmoideum 4344
- microbial diseases 4344
- Sclerotium 4344

Wildfire,

- Pseudomonas tabaci, tobacco, triazinedione derivatives 1119
- tobacco, resistance 4477

Willow,

- Alternaria 10018
- Armillaria mellea 10018
- Ascochyta 10018
- Capnodium 10018
- Cladosporium 10018
- cricket bat, Erwinia salicis, electrical resistance 8862
- fungal diseases 10017
- Gloeosporium salicis 10018
- Marssonina salicis 10018
- Melampsora 10018
- microbial diseases 10018
- Phyllosticta 10018
- Pollaccia saliciperda 10018
- Sphaceloma murrayae 10018
- Uncinula salicis 10018
- weeping, Glomerella miyabeana 4542

Wilt,

- Cephalosporium, elm 5458
- Ceratocystis fagacearum, northern red oak 2048
- Ceratocystis fagacearum, oak 8858
- Ceratocystis fagacearum, red oak, resistance 8859
- Ceratocystis fimbriata, cacao 7144
- Erwinia chrysanthemi, sweet potato 7176
- Erwinia stewartii, corn, Chaetocnema pulicaria, carbofuran 8783
- Erwinia tracheiphila, melon, resistance 3557
- Fusarium, chilli, plant protection 7145
- Fusarium moniliforme, okra 6277
- Fusarium oxysporum, carnation, benomyl 2022
- Fusarium oxysporum, cotton 2738 4384 7867
- Fusarium oxysporum, cucumber, resistance 7955
- Fusarium oxysporum, Eruca sativa 4388
- Fusarium oxysporum, flax, soil antifungal agent 366
- Fusarium oxysporum, melon 4393
- Fusarium oxysporum, melon, dextranase 1835
- Fusarium oxysporum, melon, foliar nutrient sprays 2065
- Fusarium oxysporum, melon, pectinolytic/cellulolytic enzymes, potassium 7154 7922
- Fusarium oxysporum, melon, soil potassium 7923
- Fusarium oxysporum, muskmelon 1068 2748
- Fusarium oxysporum, okra 6277
- Fusarium oxysporum, passionflower, toxin 7828
- Fusarium oxysporum, pea 1856 2678 7867
- Fusarium oxysporum, pea, biological control 5412
- Fusarium oxysporum, pea, pea mosaic virus 7872
- Fusarium oxysporum, pea, resistance 1011
- Fusarium oxysporum, pea, resistance testing 6329

Wilt(Contd),

- Fusarium oxysporum, pigeon pea 7873
- Fusarium oxysporum, radish 7167
- Fusarium oxysporum, safflower, mangiferin seed treatment 7992
- Fusarium oxysporum, sesame, fungicide 9959
- Fusarium oxysporum, sunflower 6300
- Fusarium oxysporum, sweet potato 2760
- Fusarium oxysporum, sweet potato, benomyl/thiabendazole 6371
- Fusarium oxysporum, sweet pitato, resistance 8777
- Fusarium oxysporum, tomato 6311 9904
- Fusarium oxysporum, tomato, fungicide 378
- Fusarium oxysporum, tomato, beta-1-4-endo-glucanase 7142
- Fusarium oxysporum, tomato, plant protection 5392
- Fusarium oxysporum, tomato, resistance 3561 7959 8781
- Fusarium oxysporum, tomato, resistance, nematode 1992
- Fusarium oxysporum, watermelon, resistance 3562
- Fusarium/Rhizoctonia/Sclerotium, peanut, fungicide 266
- Fusarium semitectum, okra 6277
- Fusarium solani, apricot 1661
- Fusarium solani, melon 3516
- Fusarium solani, okra 6277
- Fusarium, sunflower 9943
- Fusarium udum, pigeon pea, soil 1858
- Fusarium vasinfectum, cotton 312
- Mycoplasma, coconut palm 481
- Myxosporium osidii, guava 1664
- Ozonium texanum, gram 1009
- Phialophora cinerescens, carnation 9854
- Phialophora cinerescens, carnation, resistance 1986 9854
- Phytophthora, betel, fungicide 8677
- Phytophthora cryptogea, cheitnut 3618
- Phytophthora palmivora, pepper 3506
- Phytophthora parasitica, betel 309
- Pseudomonas solanacearum, tomato 8740
- Pseudomonas solanacearum, tomato, ethylene 3538
- Pseudomonas solanacearum, tomato, plant protection 5392
- Pseudomonas solanacearum, tomato, resistance, soil temperature 9947
- Sclerotinia sclerotiorum, chilli 2733
- Sclerotinia sclerotiorum, sunflower 333
- Sclerotium bataticola, sunflower 9943
- Sclerotium rolfsii, Caladium bicolor, fungicide 8799
- Sclerotium rolfsii, lentil, seed treatment fungicide 4523
- Sclerotium rolfsii, Polyanthes tuberosa, fungicide 8799
- sunflower 9943
- tracheomycosa, Fusarium, lupin 5304
- Verticillium albo-atrum, alfalfa 1841 9753
- Verticillium albo-atrum, eggplant 9846
- Verticillium albo-atrum, Norway maple, electrical resistance 8857
- Verticillium albo-atrum, pimento 9940
- Verticillium albo-atrum, pimento, resistance 9940
- Verticillium albo-atrum, pistachio, soil fumigation 5362
- Verticillium albo-atrum, potato, soil, barley straw amendment 5415
- Verticillium albo-atrum, sugar maple, electrical resistance 8857
- Verticillium albo-atrum, tomato 1962 4427 9846 9905
- Verticillium albo-atrum, tomato, ethylene 6361
- Verticillium albo-atrum, tomato, resistance, phenolic compounds 337

Subject index

Wilt(Contd),

- Verticillium cinerescens*, carnation, benomyl 2022
- Verticillium dahliae*, brinjal 1048 1049
- Verticillium dahliae*, brinjal, fungicide 4489
- Verticillium dahliae*, cotton 4465
- Verticillium dahliae*, cotton, pectolytic enzymes 6263
- Verticillium dahliae*, cotton, resistance testing 4465
- Verticillium dahliae*, cotton, soil urea 4520
- Verticillium dahliae*, cotton, tolerance 1925
- Verticillium dahliae*, endo-polygalacturonase/endo-cellulase 2666
- Verticillium dahliae*, + *Meloidogyne javanica*, tomato 4428
- Verticillium dahliae*, olive 9876
- Verticillium dahliae*, olive, resistance 9876
- Verticillium dahliae*, peppermint 9885
- Verticillium dahliae*, potato 7166 9885
- Verticillium dahliae*, potato, resistance 7166
- Verticillium dahliae*, raspberry 1078
- Verticillium dahliae*, spearmint 9885
- Verticillium dahliae*, sunflower 333 6303 8734
- Verticillium dahliae*, tobacco 3537
- Verticillium dahliae*, tomato 8744 8886 9904
- Verticillium dahliae*, tomato, plant protection 5392
- Verticillium*, elm 5458
- Verticillium*, peanut 6195
- Verticillium*, potato, telone C 8720
- Verticillium*, sunflower 9943
- viral, pineapple 4400
- Xanthomonas campestris*, wallflower 1963

Windrow,

- compost, microbial sampling 1458

Wine,

- 5177 9514
- aflatoxins, reversed-phase high performance liquid chromatography 6134
- antibacterial agent/antifungal agent, 5-nitrofurylacrylic acid 3359
- antiviral agent 4672
- apple pomace 103
- aroma composition 5166
- benzimidazole fungicide 5425
- Botrytis cinerea* 104
- Botrytis cinerea*, fungicide 8447
- Cheddar cheese whey 2548
- enzymes 2547 3356
- flocculation clarification, dispergated collector 1590
- fruit 9517
- gel chromatography 91
- glycerol, *Saccharomyces* 5178
- home-made 2546
- hydrolysed whey, *Saccharomyces cerevisiae* 3357
- lactic acid bacteria, amino acids 106
- Lactobacillus yamanashiensis*, *Lactobacillus mali*, cider 6975
- malo-lactic fermentation 9516
- malo-lactic fermentation, *Leuconostoc oenos* 1704
- peach, 2,6-dichloro-4-nitroaniline 7700
- preservative, cinnamyl phenols 532
- red rice, *Monascus* pigments 6947
- Saccharomyces baillii* 7720
- Saccharomyces cerevisiae* 6977 8450
- Saccharomyces chevalieri* 6977
- Saccharomyces*, sorbic acid 9515
- Saccharomyces vini*, carbon dioxide 8449
- Schizosaccharomyces pombe*, grape 9513
- sherry 898
- sulphide 5180
- sulphite 5180
- yeast 105

Wine(Contd),

- yeast filtration characteristics 6015
- yeast, sulphite, sulphite reductase/ATP sulphurylase 1703
- yeasts 8448
- yeasts, alcohol dehydrogenase, fusel oil 3358
- yeasts, phenolic compounds 5179
- Wineberry,**
- American, cucumber mosaic virus 6315
- Winery,**
- waste, lagoon treatment 10445
- Wire-plant,**
- Oidiopsis/Leveillula taurica* 5299
- Wisconsin mastitis test,**
- milk 138 8474
- Witches' broom,**
- Aciculuspermium take*, bamboo 8622
- Crinipellis perniciosa*, cacao, plant protection 7144
- mycoplasma, *Angelonia salicariaefolia* 3500
- mycoplasma-like organism, dogwood, tetracycline/oxytetracycline/chloramphenicol 1928
- mycoplasma-like organism, *Mirabilis jalapa* 5379
- mycoplasma-like organism, walnut 3622
- mycoplasma, peanut 5308
- Pucciniastrum goeppertianum*, lowbush blueberry 8000
- rickettsia-like organism, larch 410
- rickettsia-like organism, spinach 7173
- rickettsia-like organism, sugarbeet 7173
- Witches' broom disease,**
- jujube, tetracycline 315
- loofah, leafhopper 319
- Witches' broom-like disease,**
- beet 331
- Witchgrass,**
- Sclerophthora macrospora* 4335
- Wofasteril,**
- disinfectant, beverage industry 1529
- disinfectant, tonometer 3917
- Wood,**
- antibacterial agent/antifungal agent, alkylphenols 531
- antibacterial agent, penicillins 3753
- antifungal agent/antibacterial agent, quaternary ammonium salt 470
- Armillaria mellea*, pseudosclerotial plate 8864 10024
- Armillaria mellea*, scanning electron microscopy 6400
- bacteria 3602
- bacteriostat/fungistat, benzisothiazolin-3-one derivatives 534
- Basidiomycetes, selective medium 7245
- beech, degradation, *Coriolus versicolor* 10022
- cellulose, fungal degradation 6402
- Ceratocystis ulmi*, scanning electron microscopy 6400
- chips 6404
- chips, degradation, *Aspergillus fumigatus* 10023
- chips, lignin degradation, fungi 9524
- decay fungi 8863
- degradation, *Aspergillus niger*, mannanase 1660
- degradation, forest soil 6401
- degradation, fungi, agar-stick breaking-radius test 4550
- degradation, *Sporotrichum pulverulentum*, phenol oxidase 2052
- degrading microorganisms, marine water 7507
- Douglas fir pole, antifungal treatment, kerf 4553
- elm, *Ceratocystis ulmi*, kiln-drying 10027
- Fomes annosus*, biological control 6405

Subject index

Wood(Contd),

Fomes fomentarius, scanning electron microscopy 6400
 fungal degradation, cellulose pulp 1707
 fungi 2831 7242 7244 8009
 fungicide 2053
 fungicide, 3,5-dihalo-4-hydroxyacetophenones 8076
 fungicide, 1,2-dithiol-3-thione derivatives 8077
Gloeophyllum trabeum, soil-block/agar-block method 8011
 lignin degradation, fungi 6403
 lignin-degrading bacteria, culture medium 1563
 maple chip piles, fungi 421
Merulius lacrymans, scanning electron microscopy 6400
Mesquite, *Erevibacterium* protein 3237
Mesquite, *Pseudomonas*, protein, cattle feed 4227
 microbial decay 10021
 microbial degradation 9995
 neutralysates, *Candida scottii* 2433
 painted/unpainted, *Aureobasidium pullulans* 2550
 particle board decay testing, *Gloeophyllum trabeum* 10028
Piptoporus betulinus, scanning electron microscopy 6400
Poria carneolutea 3603
Poria cinerascens 3603
Poria nigra 3603
Poria nigrescens 3603
Poria placenta, cellulose degradation 10025
Poria reticulata 3603
Poria versipora 3603
 preservative 2854 4554 8012 8013
 preservative, assay 10031
 preservative, assay, contact agar-block method 10029
 preservative, bactericide/fungicide, benzisothiazolinone + quaternary ammonium compound 4687
 preservative, bactericide/fungicide, triorganotin compounds/triorganolead compounds 2129
 preservative, chlorinated phenols monochloroacetate esters 4614
 preservative, cryptosporiopsis, *Graphium* 4555
 preservative, decay fungi 10032
 preservative, fungicide 10033 10034 10035
 preservative, hyalodendrin, *Graphium* 4555
 preservative, hydrocarbon 1159
 preservative, microbial pectinase 5041
 preservative, *Schizophyllum commune* 8865
 preservative, scytalidin, *Graphium* 4555
 preservative, soft rot fungi 10030
 preservative, soft rot fungi, vermiculite burial test 422
 preservative-treated, soft rot 10020
 redwood, decay resistance 10026
 resistance, *Lenzites trabea* 420
 Scots pine, degradation, *Peniophora mutata* 10022
Serpula lacrymans 7243
Shigella sonnei, indirect haemagglutination 8285
 soil soft-rot fungi 10019
Stereum hirsutum, pseudosclerotial plate 8864 10024
Stereum hirsutum, scanning electron microscopy 6400
Stereum sanguinolentum, biological control 6405
Trametes confragosa, scanning electron microscopy 6400
 veneer, fungi 4549

Wood preservative,

Coniophora puteana 4551
Poria vaporaria 4551
Serpula lacrymans 4551
Woodiness disease virus,
 passionfruit 1905
Wort,
 8442
Aspergillus phoenicis endo-beta-glucanase 5946
 beer, microbial enzymes 4157 4158 7698
 beer, microbial protease 8443
 beer, nitrite 9511
 beer, *Saccharomyces carlsbergensis*, zinc, manganese 6972
 beer, water 4161
 carbon dioxide 95
 fatty acids assay 9510
 gel chromatography 91
 high gravity brewing 895
 saccharides, thin-layer chromatography 8441
Saccharomyces cerevisiae culture 2396
 yeast 101
Wrico TQC,
 fresh-water water microorganisms 10481
Wright stain,
 slide staining device, space flight 4925
Wyerone epoxide,
Botrytis cinerea/*Botrytis fabae*, broad bean 373

X-disease,
 mycoplasma-like organism, peach, oxytetracycline 6375
X-ray microanalysis,
 fungi 10607
Xanthan,
Xanthomonas campestris 2517
Xanthomonas campestris, plant disease 6936
Xanthomonas, plant disease 6936
Xanthan gum,
 clarification, microbial protease 3332
 classification, microbial protease 5111
 cottage cheese 1740
Xanthate,
 thiocyno-, derivatives, bactericide/fungicide 2972
Xanthene,
 bis-basic esters/bis-basic amides, antiviral agent 1247
 bis-basic ketones, antiviral agent 1249
Xanthenone,
 bis-basic ketones, antiviral agent 1249
Xanthium strumarium,
 + *Spirillum*, nitrogen fixation 5501
 alfalfa mosaic virus 2762
Xanthoascia,
Aspergillus candidus, structure 5281
Xanthomegnin,
 carbon-13 nuclear magnetic resonance spectroscopy 6948
Penicillium viridicatum 6000
Xanthomonadin T,
Xanthomonas juglandis 3340
Xanthomonas,
 activated sludge, non-ionic surfactant degradation 1709
 colloid, cheese 9561
 cotton seed 2737
 cowpea, resistance 7194
 estuarine water/sediment, petroleum degradation, numerical taxonomy 10109
 heteropolysaccharide, thickening agent 2516
 organophosphate insecticide hydrolysis 113
 polysaccharide 374
 polysaccharide, fertiliser 1685

Subject index

- Xanthomonas (Contd),**
 quaternary ammonium compound degradation 7711
 test 1561
 xanthan gum, classification, microbial protease 5111
 xanthan gum, clarification, microbial protease 3332
 xanthan, plant disease 6936
- Xanthomonas albilineans,**
 sugarcane, resistance 3549
- Xanthomonas ampelina,**
 soybean 6196
- Xanthomonas axonopodis,**
Aristida oligantha rhizosphere, nitrogen fixation, *Rhizobium/Azotobacter* 2075
- Xanthomonas begoniae,**
Begonia, resistance 4456
 heteropolysaccharide, thickening agent 2516
- Xanthomonas campestris,**
 Brussels sprout, seed treatment 8830
 heteropolysaccharide, thickening agent 2516
 maintenance 7360
 perennial ryegrass *pylloplane*, *Drechslera dictyoides* 7889
 polysaccharide 1684 2515 2517
 polysaccharide, + binders/proteins 8410
 polysaccharide, cottage cheese 1740
 polysaccharide, fertiliser 1685
 wallflower 1963
 xanthan gum, classification, microbial protease 5111
 xanthan, plant disease 6936
- Xanthomonas citri,**
 chalcone 7347
 Citrus, copper compound 2026
 Citrus, electron microscopy 9832
 dihalo-sulphonate derivatives, plant protection 7979
 enzyme, cephalixin 8136
 flavanone derivatives 10188
 flavone 7347
 flavone derivatives 10188
 isothiocyanate derivatives 3722
 lime 1045 2723 6245
 Parthenium hysterophorus extract 2932
 s-triazinyl aryl/alkyl sulphones 1215
- Xanthomonas fragariae,**
 strawberry 4417
- Xanthomonas fuscans,**
 polysaccharide 8411
- Xanthomonas incanae,**
 heteropolysaccharide, thickening agent 2516
- Xanthomonas juglandis,**
 walnut, antibacterial agent 2050
 xanthomonadin T 3340
- Xanthomonas malvacearum,**
 chalcones 7318
 cotton 6261 7913
 cotton, antibacterial agent 3595
 cotton, resistance 4463 4464 7913
 cotton seed 6262
 flavanone derivatives 10188
 flavone derivatives 10188
 flavones 7318
 plant rhizosphere 2856
 pyridine derivatives 2823
- Xanthomonas mirabilis,**
Mirabilis jalapa 320
- Xanthomonas nigromaculans,**
 Zinnia 340
- Xanthomonas oryzae,**
 2-amidocarbonylthiobarbituric acids 2027
Achromobacter lunatus immobilised bacteriolytic enzyme 6851
 antibiotic No. K-73 3803
 chalcone 7347
 flavone 7347
 herbicidin A/herbicidin B 5741
 isothiocyanate derivatives 3722
- Xanthomonas oryzae (Contd),**
 phosphoryl phenyldiamine derivatives 1118
 pyridine derivatives 2823
 rice 279 1031 6165 7129 9796 9797
 rice, biological control 7220
 rice, *Leptocorisa acuta* 1030
 rice, plant protection 1029
 rice, resistance 1984 2703 6335 9932
 rice seed 6222
 rice, triazinedione derivatives 1119
- Xanthomonas papavericola,**
 poppy 3520
- Xanthomonas phaseoli,**
 bean 1842 4288 8503
 bean, antibacterial agent 4522
 bis(diphenylaminomethane) derivatives 1265
 green gram 9765
 soybean 9769
- Xanthomonas pisi,**
 heteropolysaccharide, thickening agent 2516
- Xanthomonas pruni,**
 apricot, fungicide 9958
 peach 9841
 peach, 1906
 stone fruit trees, fungicide 9958
- Xanthomonas S19,**
 polysaccharide 2518
- Xanthomonas sesami,**
 sesame 8727
- Xanthomonas tardicrescens,**
 iris 8700
- Xanthomonas translucens,**
 wheat 3488
- Xanthomonas vasculorum,**
 plant disease 2656
- Xanthomonas vesicatoria,**
 340
 dinitrothiophene derivatives 7987
 pepper, triazinedione derivatives 1119
 rhizopin 1438
 tomato 8740
 tomato/chilli/*Datura* 6249
 tomato, copper compound 2026
 tomato, plant protection 5392
- Xanthomonas vignicola,**
 cowpea 9765
- Xanthone,**
 bis-basic esters/bis-basic amides, antiviral agent 1247
- Xanthorrhoea semiplana,**
Phytophthora cinnamomi 8596
- Xanthorrhoea teteana,**
Phytophthora cinnamomi 8596
- Xanthosine 5-monophosphate-amidotransferase,**
Escherichia coli 4114
- Xanthosoma sagittifolium,**
Fusarium moniliforme post-harvest decay 9913
Fusarium solani post-harvest decay 9913
 virus diseases 8674
- Xenobiotic,**
 microbial degradation 7706
- Xeromphalina campanella,**
 conifers 5446
- Xiphinema bakeri,**
Cylindrocarpon destructans, Douglas fir 8844
- Xiphinema index,**
 rickettsia-like organism, grapevine yellows disease. 9869
- Xylan,**
 degradation, soil fungi 9522
 fungal degradation 9521
Streptomyces xylanase 55 56
- Xylanase,**
 Basidiomycetes 9438
Penicillium digitatum 4032
Streptomyces 5100 5101
Streptomyces, xylan 55 56
Trametes hirsuta 9438
Trichosporon cutaneum 7617

Subject index

Xylanase(Contd),

Trichosporon pullulans 7617

endo-1,4-beta-Xylanase,

Aspergillus niger 6928

Xylaria mali,

apple, plant protection 7136

Xylaria minuta,

wild date palm 1057

Xylene,

oxidation, Pseudomonas aeruginosa 5519

Xylenol,

derivative, antibacterial agent, antiseptic 10488

Xylitol,

aflatoxins, thin-layer chromatography 8556

antibacterial agent/antifungal agent 5593

Enterobacter liquefaciens 2540

Xyloporosis virus,

Citrus 8662

Xylose,

Yersinia enterocolitica lipopolysaccharide 6935

D-Xylose dehydrogenase,

Arthrobacter 8599

Xylose isomerase,

Streptomyces, dextrose, levulose 7669

Streptomyces olivochromogenes 839

Streptomyces olivochromogenes, immobilisation 7668

Xylose lysine deoxycholate agar,

isolation medium, Salmonella 9284

isolation medium, Shigella 9284

D-Xylose reductase,

Enterobacter liquefaciens, xylitol 2540

beta-D-xylosidase,

Bacillus pumilus 2504

Enterobacteriaceae 3171

Penicillium wortmanni 2505

exo-1,4-beta-xylosidase,

Aspergillus niger 6928

Xylostatin,

2171

Bacillus circulans/Bacillus vitellinus,

antibacterial agent 654

Xylostatin,

9501

Yam,

Alternaria tenuis 2763

Cucumber mosaic virus 6316

fungal post-harvest decay, fungicide 7948

post-harvest decay 6327

virus disease 339

yam mosaic virus 8746

Yam mosaic virus,

yam 8746

Yarn,

antimicrobial agent 1182

virus-like particles 3539

Yeast,

3214 6818

+ Amylomyces rouxii, Indonesian tape ketan fermentation 8452

-Leavened low-protein bread 7022

acetoin 3344

active dried, flour 9592

air-dried beef 172

alcohol 101

alcohol dehydrogenase, immobilisation 9353

alkane 484

amine degradation 4168

antibiotics 2170

API 20C system 10610

API 20C test 9290

autolysates, meat flavouring 7031

autolysis 1716

Yeast(Contd),

B vitamins, microbial assay 4160

beer 8440

beer, membrane filter, tetracycline,

antibacterial agent 1702

beer, rapid final fermentation 4159

beer, sampling 8446

beverage proportioning pumps 4225

biomass, cellulose waste hydrolysate 6704

biomass, peat hydrolysate medium 2434

biomass-protein, soybean whey culture medium 6838

bread dough 1756

bread dough, sonication 8513

brewers', chicken feed 9618

brewing 7720 8437

brewing, polymer fixation, beer 8439

carbohydrate assimilation, auxanographic method 10611

carbohydrate assimilation patterns 10612

carbonated beverage 5239

carboxypeptidase, phosphofructokinase 4104

carob bean flour 3405

carotenoid, peat hydrolysate medium 2434

cell membrane deproteination 6823

cell wall lytic enzyme, Arthrobacter 9416

cell wall lytic enzyme, Oerskovia

beta-1,3-glucanase 9392

cell wall polysaccharide, alkane, calf feed 6097

cell wall, Thermoactinomyces vulgaris lytic enzyme 32

champagne, aroma compound 897

cider, patulin, sulphur dioxide 7829

DL-citronellal reduction, L-citronellol 7685

computer 6793

continuous culture 779 1589

culture 782 1719

culture, ethanol 781

culture purity, immunofluorescence 5857

cured pork + pickles 3399

diacetyl 3344 3344

disintegration 10618

distillery slops 6032

DNA photolyase, activator 9381

dried, Salmonella 2385

dry sausage 7770

duck feed 9619

ergosterol 60

extract 5885

fatty acids assay 9510

fermentation 7720

filtration characteristics 6015

Flavobacterium oomitor

endo-beta-1,3-glucanase 2466

flocculation 5861

flocculation clarification, dispergated

collector 1590

fodder, culture 1719

food 7718 7719 7720

food, preservation 7794

fruit cannery waste 911

fruit, colloidal silica medium 5090

fruit syrup 5259

fusel alcohols, alcohol dehydrogenase 6017

fusel alcohols, alpha-keto acid decarboxylase 6017

beta-galactosidase, galactose 9444

glucose-6-phosphate dehydrogenase,

immobilisation, polyacrylamide gel 5953

glutamate dehydrogenase 9402

grape juice continuous fermentation,

slant-tube fermentor 6976

grape must, wine 105

hexokinase, immobilisation, polyacrylamide gel 5953

hydrocarbon, tubular loop fermentor 6967

indicator, water chlorination 1499

industrial product pollution 4848

invertase 5008

Subject index

Yeast (Contd),

- killer-factor, beer 896
- lipid, hydrocarbon, leather fat liquoring composition 3666
- lipid-rich, culture 9479
- lyophilisation 2159
- mannan 3216
- meat, histological test 9584
- membrane 1697
- methanol, mathematical optimization 4915
- mitochondrion 4030
- nitrate reductase test 10613
- Oerskovia beta-1,3-glucanase/lytic enzyme 3275
- phosphofructokinase 6911
- plant leaf, pollen 2660
- preservation 4706
- protein, ethanol 3240 5905
- protein, food 9346
- protein, hydrocarbon, food/feed 133 3664
- protein, nucleic acid content reduction, food 3360
- protein, peat hydrolysate medium 2434
- protein-vitamin concentrate, food/animal feed 3241
- protein, waste cellulose 2432
- proteinase, phosphofructokinase 4104
- Provolone cheese 2577
- restoration, dessication 3739
- rice flour bread 3402
- shellfish 6086
- soft drink 6093
- soy sauce fermentation 4164
- soray-dried white egg whipping properties 7010
- sulphite waste liquor + ethanol 9322
- tests 1593
- turbidity 3204
- urea hydrolysis, Berthelot colour reaction 6795
- vacuum-packaged trout, gamma-irradiation 5258
- vitamin B group assay 6016
- wild, beer 98
- wine 8448
- wine, alcohol dehydrogenase, fusel oil 3358
- wine, phenolic compounds 5179
- wine, sulphite, sulphite reductase/ATP sulphurylase 1703

Yeast-lytic enzyme,

- Saccharomyces cerevisiae/Candida tropicalis/Rhodotorula 2954

Yeast-spot,

- Nematospora coryli, soybean seed 1860

Yellow bean mosaic virus,

- bean 1842

Yellow corky vein virus,

- sweet orange 1046

Yellow death,

- Mycorrhiza, Merkus pine 8845

Yellow leaf blight,

- Phyllosticta maydis, corn 1870 5327

Yellow leaf blotch,

- Leptotrochita medicaginis, alfalfa 2669
- Leptotrochita medicaginis, Medicago 2669
- Pseudomonas, grass 4316
- Pseudomonas, Johnsongrass 4316
- Pseudomonas, maize 4316
- Pseudomonas, pearl millet 4316
- Pseudomonas, Sorghum bicolor 4316
- Pseudomonas, wheat 4316

Yellow mosaic virus,

- mung bean 2673
- soybean 2673
- urd bean 2673

Yellow rust,

- Puccinia striiformis, barley 3476
- Puccinia striiformis, barley, resistance 8769
- Puccinia striiformis, wheat 4358 7896 7897

Yellow rust(Contd),

- Puccinia striiformis, wheat 7898
- Puccinia striiformis, wheat, fungicide 7971

Yellow wilt,

- Sclerophthora macrospora, rice 3484

Yellows disease,

- rickettsia-like organism, grapevine, nematode 9869

Yersinia,

- efrotomycin 5731
- glycosidases 3171
- Haemophilus influenzae bactericidal factor 6844
- 3-(1-Methyl-5-nitro-2-imidazolyl-methylideneamino)-2-oxazolidinone 2114

Yersinia enterocolitica,

- 4976
- antibiotics 473C 6551
- butcher's shop 8508
- endotoxin 4286
- enrichment medium 4976
- food 6991
- formic acid 8317
- heat resistance, skim milk 9540
- hospital food 4187
- isolation medium 4976 4977
- lipopolysaccharide, sugars 6935
- penicillin acylase, assay, phenylacetic acid 5963
- pork tongue 8508
- tests 4946
- vacuum-packaged beef 2612
- vacuum-packaged lamb 2612

Yersinia pestis,

- see also Pasteurella pestis
- penicillin acylase, assay, phenylacetic acid 5963

Yersinia pseudotuberculosis,

- antibiotic resistance 4638
- gentamicin 4744
- kanamycin 4744
- lipopolysaccharide 64
- 3-(1-methyl-5-nitro-2-imidazolyl-methylideneamino)-2-oxazolidinone 2114
- monomycin 4744
- neomycin 4744
- penicillin acylase, assay, phenylacetic acid 5963
- soil 10050
- streptomycin 4744

Yield decline,

- rice, Pseudomonas putida, soil microorganisms 7885

Yoghurt,

- 147 927 1732 2569 2572 4202 5214 6068 6069
- 7739 7741 9550
- afatoxins 8562
- bacterial culture 922
- bacterial culture incubator 7539
- cheese 964
- continuous fermentation 5215
- continuous production 9548 9549
- frozen 8488
- hydrolysed milk, Streptococcus thermophilus, Lactobacillus bulgaricus 9547
- international standards 9552 9553
- lactase 7002
- Lactobacillus acidophilus, lysine 5205
- Lactobacillus bulgaricus, lysine 5205
- Lactobacillus bulgaricus, phage, medium 151
- Lactobacillus helveticus, phage, medium 151
- Lactobacillus lactis, phage, medium 151
- lactose, fungal beta-galactosidase 8486
- lactose, gas-liquid chromatography 7743
- microbiology, pesticide 1725
- quality control 148
- shelf-stable 4237
- soybean meal, Streptococcus thermophilus/Lactobacillus bulgaricus 189
- soybean milk, Lactobacillus acidophilus 5216

Subject index

Yoghurt (Contd),

- stabiliser 963
 - starter bacteria 6056
 - Streptococcus thermophilus,
 - beta-glycerophosphate selective medium 6070
 - Streptococcus thermophilus + Lactobacillus bulgaricus 149 6067 7742
 - Streptococcus thermophilus, phage, medium 151
 - tank method 9551
- ## Yoghurt-like product,
- soybean milk 190
- ## Yoshida ascites sarcoma,
- Bacillus thuringiensis protein 67
 - mithramycin 5998
- ## Young tree decline,
- Citrus, plant protection 6374
 - rough lemon 5357

Zaprawa Zawiesinowa T,

- fungicide seed dressing, medicinal plant 3569

Zaterion maritimum,

- wood veneer 4549

Zea mays,

- 241
- + poultry litter, silage, cattle/sheep feed 9637
- + Spirillum lipoferum, nitrogen fixation 4967
- + Spirillum, nitrogen fixation 453 5501
- acid-treated, Absidia 2623
- acid-treated, aflatoxin 2623
- acid-treated, Aspergillus flavus 2623
- acid-treated, Aspergillus fumigatus 2623
- acid-treated, Aspergillus niger 2623
- acid-treated, Penicillium 2623
- aflatoxin, Aspergillus flavus 1804
- aflatoxin B1 7820
- aflatoxins 9703 9705
- aflatoxins, ammoniation/assay 9703
- aflatoxins, fermentation 9707
- aflatoxins, thin-layer chromatography 6135
- Aspergillus flavus, aflatoxin 983 1805 2622
- Aspergillus flavus, aflatoxins 7814
- Aspergillus flavus, aflatoxins, fluorescence 6136
- Aspergillus parasiticus, aflatoxins, fluorescence 6136
- Bipolaris maydis, biological control 1998
- Botryodiplodia 4330
- Cephalosporium acremonium 6214
- cereal chlorotic mottle virus 7117
- Chloris striate mosaic disease, Rhodes grass 7128
- Colletotrichum graminicola 4331 5324 6214 6215 6216 6218
- Colletotrichum graminicola 5323
- Colletotrichum graminicola 9788
- corn stunt disease complex 7881
- corn stunt Spiroplasma 9782
- Corticium rolfsii 8636
- Corynebacterium nebraskense, preservation 10217
- Curvularia 4330
- Curvularia lunata phytotoxin 6159
- decomposing tissue volatiles, soil, Rhizoctonia solani 2871
- Diplodia macrospora 4330
- Diplodia maydis 1019 4330 5323 6214
- Diplodia zeae 7882
- disease resistance 2783
- downy mildew 4330
- Drechslera turcica 7123 8637
- dry-milled products, aflatoxins 9706

Zea mays (Contd),

- dry-milled products, zearealenone 9706
- ear rot 4330
- Erwinia carotovora 8633 8634
- Erwinia carotovora, bactericide 8827
- Erwinia herbicola 9783
- Erwinia stewartii, Chaetocnema pulicaria, carbofuran 8783
- Erwinia stewartii, inoculation technique 9784
- fungus communities, stalk rot 8635
- fungus diseases, diallate 269
- fungus post-harvest decay, chitin assay 9907
- Fusarium 274 1804 6203 8638
- Fusarium graminearum 9789
- Fusarium moniliforme 4332 6214 7882 8638 8639 9789
- Fusarium moniliforme/Gibberella zeae/Helminthosporium carbonum/Nigrospora oryzae/Sclerotium bataticola 9787
- Fusarium moniliforme, mycotoxins 9790
- Fusarium moniliforme, zearealenone 7840 7841
- Fusarium roseum 8638
- Gibberella zeae 4330 6214
- grains, sterigmatocystin, chromatography thin-layer 7834
- Helminthosporium 6214
- Helminthosporium carbonum 5325
- Helminthosporium catenarium 2699
- Helminthosporium maydis 275 5326 7124
- Helminthosporium maydis ophiobolus A 9716
- Helminthosporium maydis, ozone 9791
- Helminthosporium maydis pathotoxin 7125
- Helminthosporium maydis toxin 7067
- Helminthosporium turcicum 276 4333 9792
- gamma-irradiation, aflatoxin 3432
- kernels, Colletotrichum graminicola 6217
- leaf spot 4330
- Macrophomina phaseolina 6214
- maize chlorotic dwarf virus 1868 5320 5321 6212 8631
- maize chlorotic dwarf virus, insecticide 364
- Maize dwarf mosaic virus 1867 1868 5320 5321 5322 6212 8631
- maize dwarf mosaic virus, insecticide 364
- maize dwarf mosaic virus + maize chlorotic dwarf mosaic virus 6212
- maize foliar ring mosaic virus 7779
- maize mosaic virus, electron microscopy 8632
- maize rough dwarf virus, leafhopper 9781
- maize rough dwarf virus, plant protection 9780
- microbial diseases 4330
- mycoflora 9786
- Mycoplasma 5315
- Nigrospora oryzae 6214
- Pectobacterium carotovorum 9785
- Penicillium 1804 7882
- Phaeocytosporella oryzae 6214
- Phyllosticta maydis 1870 5327
- Physoderma maydis, fungicide 8793 8794
- phytotoxin, soil microorganisms 1162
- pig feed, Fusarium roseum 3414
- pig feed, Gibberella zeae 3414
- Pithomyces maydis 6219
- post-harvest decay, fungi, volatile compounds 5402
- Pseudomonas 4316
- Pseudomonas syringae 9783
- Pseudomonas syringae, syringomycin 7864
- Puccinia maydis, fungicide 2800
- Puccinia sorghi 2694 5328 8640
- Puccinia sorghi, fungicide 9963
- Puccinia sorghi, haustorial neckband, Casparian strip 4300
- Pythium 4330
- Pythium aphanidermatum 7883
- residues, Trichoderma viride protein, animal feed 9611
- resistance, Colletotrichum graminicola 6216

Subject index

Zea mays(Contd),

- resistance, *Colletotrichum graminicola* 6218 6332
- resistance, *Diplodia zeae* 6406
- resistance, *Fusarium graminearum* 6406
- resistance, *Fusarium moniliforme* 6406
- resistance, *Helminthosporium carbonum* 5325
- resistance, *Helminthosporium maydis* 1983 7197
- resistance, *Helminthosporium turcicum* 2781 5407 7198
- resistance, maize chlorotic dwarf virus 6212
- resistance, maize dwarf mosaic virus 5322 5407 6212
- resistance, *Nigrospora oryzae* 6406
- resistance, *Puccinia sorghi* 2782
- resistance testing, maize dwarf mosaic virus 7196
- resistance, *Ustilago maydis* 2783 9930
- resistance, *Ustilago zeae* 5407
- Rhizoctonia* 4330
- Sclerophthora macrospora* 4335
- Sclerophthora rayssiae*, fungicide 6356
- Sclerospora* 4330
- Sclerospora sorghi* 2695 7884
- Sclerotium* 7882
- Scopulariopsis brevicaulis*, ammonia 2769
- seed, *Aspergillus flavus* 1838
- seed, *Azotobacter*, nitrogen fixation 2693
- seed, *Phosphobacterium fertilizer* 3629
- silage, cattle feed 6110 6111 6112 6113 6114 6115
- soil cores, nitrogen fixation 6437
- Sporosporium reilianum* 5329
- Spacelotheca reiliana* 2696
- Spiroplasma* 5321
- stunt, *Spiroplasma*, culture medium 10590 10591
- tolerance, maize chlorotic dwarf virus 357
- tolerance, maize dwarf mosaic virus 357
- Trichoderma* 7882
- Ustilago maydis* 1020 2697 8638
- Ustilago zeae* 4315
- vesicular-arbuscular mycorrhiza 4570
- viral stunting disease 7122
- virus disease 1869
- virus diseases 1614
- wheat streak mosaic virus 1867
- wheat streak mosaic virus 5321
- zearalenone, Eppley method 991

Zearalenone,

- see also F-2 toxin 9688
- animal feed 8554
- cereals, animal feed 4255
- corn 241
- corn, Eppley method 991
- dry-milled corn products 9706
- food, field desorption mass spectrometry 7810

- Fusarium* 2619
- Fusarium*, barley grain 2638
- Fusarium culmorum* 9723
- Fusarium graminearum* 9723
- Fusarium graminearum*, dichlorvos 2636
- Fusarium graminearum*, insecticide 2636
- Fusarium graminearum*, naled 2636 2637
- Fusarium moniliforme*, corn 7840 7841 9790
- Fusarium roseum*, animal feed 2620
- Fusarium zeae*, chicken/Japanese quail feed 1769
- high-pressure liquid chromatography/gas chromatography/thin-layer chromatography 242
- 4-methoxy-benzene-diazonium fluoroborate method 990

Zestin,

- Scots pine, *Suillus variegatus* 6381

Zestin riboside,

- Scots pine, *Suillus variegatus* 6381

Zeaxanthin,

- Flavobacter* 73 74

Zeaxanthin dirhamnoside,

- Corynebacterium autotrophicum* 4130

Zeolite disruption,

- Neisseria gonorrhoeae*, antigen 5136

Zerlate,

- Alternaria*, wheat 2005

Zinc,

- Aspergillus parasiticus*, aflatoxin 7811
- Escherichia coli* 10086
- Escherichia coli* phosphatase, magnesium 6910
- leaching, *Thiobacillus ferrooxidans* 1181
- Saccharomyces carlsbergensis*, beer wort 6972
- Streptococcus pyogenes streptolysin O* 9744
- tolerance, *Penicillium ochro-chloron* 8930
- Vibrio parahaemolyticus haemolysin* 9744

Zinc chloride,

- wood preservative, *Schizophyllum commune* 8855

Zinc-maneb,

- + ethephon, *Alternaria solani/Alternaria tenuis/Colletotrichum*, tomato 8805
- Colletotrichum gloeosporioides/Ascochyta caricae/Gloeosporium*, papaya 2772
- Hemileia vastatrix*, coffee 5422
- Puccinia graminis tritici*, wheat 8811
- Puccinia recondita tritici*, wheat 8811
- Sclerospora sorghi*, sorghum 1107
- Septoria avenae*, wheat 4488
- Septoria nodorum*, wheat 4488 8811
- Septoria tritici*, wheat 4488

Zineb,

- + copper oxychloride, *Sclerophthora rayssiae*, corn 6356
- Alternaria cucumerina* spore leachates 1106
- Alternaria cucumerina*, squash 382
- Bremia lactucae*, lettuce 4391 5426
- Curvularia lunata*, cluster bean 2002
- fungicide, plant protection 5427
- Herpotrichia juniperi*, pine 2840
- Lophodermium pinastri*, pine 1145 1151
- Lophodermium pinastrium*, pine 1154
- Puccinia hordei*, barley 2003
- Puccinia pelargonii-zonalis*, pelargonium 6364
- radiate pine seed dressing, mycorrhiza 7989
- Sclerotium rolfsii*, *Caladium bicolor* 8799
- Sclerotium rolfsii*, *Polyanthus tuberosa* 8799
- seed dressing, radiate pine, mycorrhiza 6382
- wheat leaf microflora 379

Zingiber officinale,

- Fusarium oxysporum* 313
- Fusarium oxysporum*, fungicide 2007
- Memnoniella echinata* post-harvest decay 7945
- Nectria inventa* post-harvest decay 7945
- Pythium deliense* 1061
- Trichuris spiralis* post-harvest decay 7945
- wheat streak mosaic virus 2732

Zinnia,

- Erysiphe cichoracearum*, resmethrin 4500
- seed, *Alternaria zinniae* 341

Zinnia elegans,

- Xanthomonas nigromaculans* 340

Zinnia linearis,

- Xanthomonas nigromaculans* 340

Ziram,

- Alternaria cucumerina*, squash 382
- Alternaria trititica*, wheat 1102
- Curvularia lunata*, cluster bean 2002
- Fusarium oxysporum*, wheat 2801
- Lophodermium pinastri*, red pine 1145
- Lophodermium pinastri*, Scots pine 1145
- Macrophomina phaseolina*, papaya 2802
- Phytophthora nicotianae*, mandarin orange 2724
- Sclerotium oryzae*, rice 284
- Thielavia terricola*, sesame 381
- Zirconcium hydroxide*, microorganism immobilisation 1620

Subject index

Ziride,

walnut, fungicide 5465

Zizania aquatica,

Drechslera oryzae 4344

Drechslera sorokiniana 4344

fermentation, bacteria 2549

Helminthosporium sigmoideum 4344

microbial diseases 4344

Sclerotium 4344 8659

Zizania latifolia,

Helminthosporium sigmoideum 7131

Nakataea sigmoideum 295

Zizyphus jujuba,

Cladosporium oxysporum 1000

Zizyphus mauritania,

Isariopsis indica 8701

witches' broom disease, tetracycline 315

Zonate leaf spot,

Gloeocercospora sorghi, Sorghum bicolor,

fungicide 7973

Zonate ring spot,

Ascochyta cucumis/Fusarium oxysporum/Fusarium

roseum, pumpkin 4411

Zone scanner,

automatic, microbiological assay 4921

Zoogloea,

polymer 693

wastewater activated sludge 4865

Zoogloea ramigera,

activated sludge 6673

floc 8227 8228

Haliscamenobacter hydrossis, activated sludge
9180

poly-beta-hydroxybutyrate,

poly-beta-hydroxybutyrate synthase 4143

Zoster-varicella antibody,

indirect haemagglutination test 3209

Zygomycetes,

river water 3134

Zygophiala jamaicensis,

apple 8598

carnation 8598

Zygorhynchus heterogamous,

soil, paraquat/diquat degradation 4602

Zygorhynchus moelleri,

2,5-dihydroxy-1,4-benzoquinones 8082

Zygosaccharomyces globiformis,

emulsified oil dressing 971

Zygosaccharomyces rouxii,

frozen concentrated orange juice, radiometry
9608

Zygosaccharomyces vini,

frozen concentrated orange juice, radiometry
9608

Zymomonas,

6974

Zymomonas anaerobia,

brewery, culture medium 7699

brewery, hygiene 8444

hop oil emulsion, beer 5168

Author index

3529	Aarockiarajulu,M.	8347	Abramov,Z.T.	2282	Agafonov,V.I.
9025	Abad,E.J.	9435	Abramov,Z.T.	2883	Agarwal,A.K.
0241	Abalyaeva,N.A.	6846	Abramowitz,J.	2663	Agarwal,C.P.
8765	Abawi,G.S.	6522	Abreu,S.L.	6429	Agarwal,C.P.
1055	Abbaiah,K.	9288	Abshire,R.L.	6431	Agarwal,D.K.
7092	Abbas-Ali,B.	5115	Abu Ruwaidar,A.S.	1016	Agarwal,D.K.
9738	Abbas-Ali,B.	5116	Abu Ruwaidar,A.S.	2728	Agarwal,D.K.
8789	Abbattista Gentile,I.	6543	Abu Shady,M.R.	9802	Agarwal,D.K.
5039	Abbott,B.J.	4211	Abu-Bakar,A.	7643	Agarwal,G.P.
829	Abbott,B.J.	2598	Acamovic,T.	8748	Agarwal,G.P.
8426	Abbott,B.J.	7742	Accolas,J.P.	3696	Agarwal,J.S.
8427	Abbott,B.J.	6494	Accorinti,J.	2873	Agarwal,S.C.
6841	Abd El-Bakey Mahmoud,A.	5087	Acvedo,F.	2670	Agarwal,V.D.
3060	Abd El-Hamid,M.M.	3695	Achari,B.	332	Agarwal,V.K.
3082	Abd El-Hamid,M.M.	75	Achenbach,H.	1957	Agarwal,V.K.
6633	Abd El-Hamid,M.M.	7680	Achenbach,H.	2566	Agarwal,V.K.
9112	Abd El-Hamid,M.M.	9470	Achenbach,H.	2825	Agarwal,V.K.
159	Abd El-Salam,M.H.	9221	Acher,A.J.	46	Agliullina,D.G.
9176	Abd-El-Bary,M.F.	7432	Achmatowicz,O.Jr.	2046	Agnihotrudu,V.
6449	Abd-El-Malek,Y.	9943	Acimovic,M.	1084	Agnihotri,V.P.
6450	Abd-El-Malek,Y.	7188	Ackerman,L.G.J.	2034	Agnihotri,V.P.
8095	Abd-El-Rahman,M.O.	5188	Ackerman,R.A.	5315	Agnihotri,V.P.
3072	Abd-El-Sadek	9348	Ackerman,R.A.	7133	Agnihotri,V.P.
9116	Abdallah,N.M.	10525	Ackerman,R.A.	6301	Agrawal,D.K.
1970	Abdel Wahab,F.K.	3927	Ackermann,E.	610	Agrawal,J.K.
9074	Abdel-Akher,M.	7562	Ackland,P.J.	4577	Agrawal,P.D.
8400	Abdel-Aziz,A.	7309	Acocella,G.	1967	Agrawal,S.C.
4115	Abdel-Aziz,M.	1782	Acott,K.A.	4484	Agrawal,S.C.
5981	Abdel-Aziz,M.	9165	Acrec,W.M.	4523	Agrawal,S.C.
1741	Abdel-Ghani,A.O.	10570	Actar,M.	5356	Agrawal,S.C.
5226	Abdel-Ghani,A.O.	7018	Acton,J.C.	6170	Agrawal,S.C.
955	Abdel-Hafez,A.M.	2196	Actor,P.	8019	Agrawal,S.C.
1970	Abdel-Kader,A.S.	10274	Actor,P.	8754	Agrawal,S.C.
6060	Abdel-Mottaleb,L.	6896	Adachi,K.	8608	Agrios,G.N.
9963	Abdel-Rahim,M.F.	845	Adachi,O.	4487	Ahamed Ali,S.
8805	Abdel-Rahman,M.	5519	Adain,V.M.	4516	Aharanson,N.
5080	Abdelal,A.T.H.	245	Adam,W.	724	Ahearn,D.G.
7655	Abdelal,A.T.H.	5613	Adam,W.	1593	Ahearn,D.G.
9629	Abdend,R.	1	Adamek,L.	4624	Ahearn,D.G.
4650	Abdulkhodzaev,T.Kh.	804	Adamek,L.	4910	Ahearn,D.G.
2078	Abdulkadir,S.	805	Adamek,L.	7655	Ahearn,D.G.
3333	Abe,H.	5038	Adamek,L.	10104	Ahearn,D.G.
0408	Abe,H.	208	Adamiker,D.	1610	Ahlawat,Y.S.
2242	Abe,K.	5096	Adamoli,A.	1869	Ahlawat,Y.S.
5125	Abe,M.	2069	Adams,B.	4795	Ahles,L.A.
7677	Abe,M.	3858	Adams,C.E.Jr.	2032	Ahmad,K.
9533	Abe,M.	1847	Adams,D.B.	8894	Ahmad,N.
3279	Abe,S.	216	Adams,D.M.	3099	Ahmad,S.
4097	Abe,S.	987	Adams,K.B.	1028	Ahmad,S.T.
5862	Abe,S.	3436	Adams,K.B.	1060	Ahmad,S.T.
6630	Abdallah,N.	4767	Adams,M.A.	1880	Ahmed,L.
9041	Abensohn,M.K.	6253	Adams,M.J.	6865	Ahn,S.
4955	Aber,V.R.	2070	Adams,P.B.	9802	Ahuja,L.D.
0137	Aber,V.R.	4066	Adams,P.R.	174	Ai-Tichen,A.
4377	Abercrombie,K.	188	Adams,W.N.	1598	Aiba,S.
5392	Aberdeen,J.E.C.	2916	Adanin,V.M.	4155	Aiba,S.
592	Aberhart,D.J.	5344	Addy,S.K.	5622	Aiba,S.
334	Abo El-Nil,M.M.	7590	Adelberg,E.A.	9374	Aiba,S.
8695	Abo El-Nil,M.M.	4220	Adeniji,M.O.	3217	Aidar,K.
352	Abo-El-Dahab,M.K.	7377	Adickman,M.D.	9160	Aikawa,F.
1970	Abou Aziz,A.B.	1038	Adlakha,K.L.	1612	Aikawa,M.
9569	Abou el-ella,W.M.	1039	Adlakha,K.L.	5815	Ainamo,A.
7243	Abou Heilah,A.N.	3176	Adlam,C.	5815	Ainamo,J.
2577	Abou-Dona,S.A.	9440	Adler,J.H.	3299	Airas,R.K.
9743	Abou-Saber,M.	2219	Adriaens,P.	3300	Airas,R.K.
3072	Abou-Zeid,A.-Z.A.	1720	Adrian,J.	7042	Aird,D.W.
3060	Abou-Zeid,A.A.	1721	Adrian,J.	5857	Aires,V.C.
3082	Abou-Zeid,A.A.	6901	Adyar,S.	2658	Aist,J.R.
3786	Abou-Zeid,A.A.	3590	Aeidi,S.M.H.	6255	Aist,J.R.
6633	Abou-Zeid,A.A.	6206	Afanasenko,O.S.	7911	Aist,J.R.
6955	Abou-Zeid,A.A.	8119	Afanasyeva,T.I.	7979	Aist,J.R.
8190	Abou-Zeid,A.A.	5458	Affeltranger,C.E.	1301	Aitkin,C.L.
9090	Abou-Zeid,A.A.	6277	Affifi,A.F.	3292	Aiyappa,P.S.
9112	Abou-Zeid,A.A.	8661	Affifi,A.F.	3293	Aiyappa,P.S.
0382	Abou-Zeid,A.A.	1966	Affifi,S.A.	3312	Aiyappa,P.S.
6270	Abracheva,P.	8953	Afinogenov,G.E.	6640	Aizawa,M.
591	Abraham,E.P.	5341	Afonin,S.P.	10377	Aizawa,M.
8929	Abramov,F.A.	4104	Afting,E.-G.	641	Ajisaka,K.
		6490	Afzelius,H.	124	Ajzen,M.S.
		1590	Agabal'yants,E.G.	1642	Akagi,J.M.

Author index

- 3498 Akai, S.
687 Akakabe, T.
6885 Akao, T.
6889 Akasaki, M.
3399 Akashi, A.
8183 Akashi, K.
1575 Akatova, N. S.
4843 Akatova, N. S.
70 Akatsu, T.
71 Akatsu, T.
755 Akcasu, Z.
3967 Akcasu, Z.
10145 Akedo, M.
5646 Akesson, E.
5635 Akhrem, A. A.
3041 Akhtar, M.
7855 Akhundova, K. A.
2487 Akiba, T.
3271 Akiba, T.
5945 Akiba, T.
4142 Akita, S.
3275 Akiyama, H.
3360 Akiyama, H.
2244 Akiyama, S. - I.
2635 Akiyama, T.
7027 Akolkar, P. N.
4834 Akopova, I. I.
1528 Akoshegyi, I.
1002 Akram, M.
1056 Akram, M.
2730 Akram, M.
5720 Akriq, D.
6411 Al Zaidan, A.
9888 Al-Beldawi, A. S.
9993 Al-Beldawi, A. S.
2441 Al-Jumaili, I. J.
4044 Al-Jumaili, I. J.
3371 Al-Najjar, T. R.
44 Al-Nuri, M. A.
9377 Al-Nuri, M. A.
6871 Alabi, R. O.
7114 Alabi, R. O.
6419 Alabouvette, C.
1022 Alagianagalingam, M. N.
2898 Alagianagalingam, M. N.
2730 Alam, M. M.
2740 Alam, M. M.
3634 Alam, M. M.
7877 Alam-Kahan, J.
4908 Alatary, S. D.
6613 Alazraki, N. P.
4521 Alberghina, A.
4983 Alberghina, F. A. M.
7870 Alberghina, E. E.
9236 Albert, A.
856 Albert, B.
7642 Albert, B.
8070 Alberti, C.
5096 Albertini, A. M.
6036 Albrecht, J. E.
3296 Albrecht, S. L.
4967 Albrecht, S. L.
4336 Albrechtsen, S. E.
1173 Albritton, B. J.
1449 Albrycht, H.
4836 Albrycht, H.
2698 Alcorn, J. L.
7605 Aldanova, N. A.
6152 Alderete, J. F.
5343 Aldwinckle, H. S.
2247 Alekhova, T. A.
4790 Alekhova, T. A.
2161 Aleksandrov, N. V.
4834 Alekseeva, A. K.
6237 Alekseeva, T. P.
9940 Aleksic, D.
9940 Aleksic, Z.
6480 Aleksin, L. M.
10536 Alemzadeh, I.
9038 Ales Reinlein, J. M.
9156 Aleshina, O. A.
731 Alexakis, P. G.
5348 Alexander, D. McE.
9266 Alexander, G. A.
2554 Alexander, H. C.
3964 Alexander, J.
2564 Alexander, J. C.
6229 Alexander, K. C.
120 Alexander, M.
1161 Alexander, M.
4145 Alexander, M.
4172 Alexander, M.
4559 Alexander, M.
7273 Alexander, M.
7711 Alexander, M.
8034 Alexander, M.
8870 Alexander, M.
3909 Alfieri, A.
1916 Alford, D. V.
5655 Alford, R. H.
8149 Alfredsson, H.
1020 Alghisi, P.
2625 Ali Hamissa, F.
3478 Ali, S. M.
911 Alian, A.
6784 Aliani, A.
10557 Aliani, A.
7651 Alicbusan, R. V.
364 Ali, J. N.
2056 Allam, A. M.
5918 Allam, A. M.
8355 Allam, A. M.
5841 Allan, G. S.
2715 Allan, R. E.
4453 Allan, R. E.
9372 Allard-Leprohon, D.
4955 Allen, B. W.
52 Allen, C. M. Jr.
10184 Allen, G. P.
5774 Allen, H. S.
10183 Allen, L. B.
10185 Allen, L. B.
649 Allen, M. S.
7310 Allen, N. E.
7311 Allen, N. E.
1902 Allen, R. M.
4232 Allen, W. R.
5184 Allgeier, R. J.
1511 Allgower, M.
1955 Alliot, B.
9803 Alliot, B.
8704 Allison, J. R.
3445 Allison, M. J.
5806 Allwood, M. C.
10154 Allwood, M. C.
10155 Allwood, M. C.
3357 Allwood, M. C.
10600 Almersjo, O.
6397 Almond, C. A.
8007 Almond, C. A.
4187 Alonso, J. - M.
8582 Alouf, J. E.
9726 Alouf, J. E.
7918 Alper, M.
2105 Altmeier, W. A.
6631 Altenbern, R. A.
7095 Altenbern, R. A.
7859 Altenbern, R. A.
3782 Alterthum, F.
1954 Altman, J.
7969 Altman, J.
9895 Altman, J.
7475 Alvares da Silva, M. O. S.
2746 Alvarez, M.
2632 Alvinerie, M.
6023 Aly, O. A.
4904 Aly, R.
6616 Alykova, N. M.
6647 Alykova, N. M.
8192 Alykova, N. M.
6616 Alykova, T. V.
6647 Alykova, T. V.
8192 Alykova, T. V.
3439 Amano, R.
7056 Amano, R.
1825 Amano, Y.
459 Amato, M.
5987 Ambegaokar, S. D.
719 Ambraziene, Z. P.
8277 Ambrose, E. J.
3624 Ambrozova, M.
8011 Amburgey, T.
420 Amburgey, T. L.
5187 Ambyer, E. L.
9351 Amelunxen, R. E.
3480 Amerson, H. V.
845 Ameyama, M.
7501 Ammann, B.
9410 Amicosante, G.
6188 Amin, K. S.
7215 Amin, K. S.
5658 Amin, S. G.
7824 Ammiriti, J. F.
7125 Ammon, V. D.
2109 Amondikar, S. S.
388 Amonkar, S. V.
7181 Amos, J. O.
1567 Amsterdam, D.
10508 Amsterdam, D.
6497 Amyes, S. G. B.
1748 Anagnostakis, S. L.
3948 Anagnostakis, S. L.
4085 Anagnostopoulos, C.
9101 Anakhova, V. A.
5102 Ananchenko, S. N.
7379 Anand, C. M.
2593 Anand, J. C.
8163 Anand, S.
5597 Ananina, G. D.
9386 Ananthaswamy, H. N.
9387 Ananthaswamy, H. N.
10044 Ananyeva, N. D.
5958 Anastas, A.
8197 Anastassakis, E.
8198 Anastassakis, E.
10368 Anchel, M.
6140 Andary, C.
7064 Andary, C.
2052 Ander, P.
233 Anderegg, R. J.
10589 Anderhub, B.
10089 Andersen, J. E.
7832 Andersen, R.
6544 Andersen, R. J.
4054 Anderson, A. W.
7718 Anderson, A. W.
8284 Anderson, E. S.
4840 Anderson, G. R.
5454 Anderson, G. W.
135 Anderson, H. J.
8856 Anderson, H. W.
956 Anderson, J.
4767 Anderson, J. D.
1175 Anderson, J. R.
5785 Anderson, L. C.
7767 Anderson, M. E.
8549 Anderson, M. E.
5454 Anderson, N. A.
8693 Anderson, N. A.
5110 Anderson, P.
6910 Anderson, R. A.
4541 Anderson, R. L.
4545 Anderson, R. L.
3651 Anderson, S. J.
9062 Anderson, S. V.
2060 Anderson, T. - H.
2811 Anderson, W. C.
4327 Anderson, W. H.
2233 Andersson, K. - E.
5699 Andersson, K. - E.

Author index

- 9737 Andor, A.
 2235 Andor, P.
 2712 Andor, T.
 514 Andre, P.
 962 Andreeva, N. A.
 963 Andreeva, O. T.
 680 Andreeva, O. T.
 425 Andreeva, T. A.
 7316 Andreichina, M. A.
 4612 Andrejuka, E. A.
 7616 Andren, R. K.
 8453 Andren, R. K.
 3851 Andrews, F. A.
 9653 Andreotti, R.
 4742 Andres, F. A.
 4740 Andrew, J. H.
 3340 Andrewes, A. G.
 9668 Andrewes, A. G.
 5310 Andrews, A. K.
 7416 Andrews, F. A.
 8990 Andrews, F. A.
 4746 Andrews, H. P.
 7470 Andrews, J. F.
 8068 Andrews, J. M.
 188 Andrews, W. H.
 722 Andrews, W. H.
 1762 Andrews, W. H.
 2385 Andrews, W. H.
 4212 Andrews, W. H.
 7774 Andrews, W. H.
 9534 Andrews, W. H.
 4897 Andric, B.
 4844 Andrievskaya, R. A.
 3012 Andrisano, R.
 2434 Andriyashina, S. S.
 3827 Andronescu, F.
 3829 Andronescu, F.
 7865 Androsova, V. M.
 2400 Andrulonis, J. A.
 8518 Andrzejewska, J.
 212 Anellis, A.
 9661 Anellis, A.
 1767 Angalet, S. A.
 929 Angelini, P.
 0190 Angellilo, B.
 2594 Angler, R. Y.
 7651 Anglo, P. G.
 7414 Anhalt, J. P.
 8080 Anhalt, J. P.
 381 Anilkumar, T. B.
 1004 Anilkumar, T. B.
 1018 Anilkumar, T. B.
 6252 Anilkumar, T. B.
 6299 Anilkumar, T. B.
 8838 Anilkumar, T. B.
 5119 Anisimov, E. G.
 3831 Anisimov, P. I.
 7458 Anisimov, T. K.
 1244 Aniskin, E. D.
 1878 Anjaneyulu, A.
 2304 Anjaneyulu, G.
 17 Anjum, J. I.
 0365 Anke, H.
 9155 Anke, T.
 4641 Ankirskaya, A. S.
 4695 Anliffe, G. A.
 0413 Anne, J.
 937 Annear, D. I.
 9533 Anod, H.
 1798 Ansar, A.
 5646 Ansehn, S.
 5700 Ansehn, S.
 8154 Ansehn, S.
 0607 Ansel, M.
 0018 Anselmi, N.
 0385 Anteunis, M. J. O.
 2471 Anthoni Raj, S.
 3041 Anthony, C.
 115 Anthony, D. H. J.
 7710 Anthony, D. H. J.
 7791 Anthony, W. B.
 8277 Antia, N. H.
 7754 Antila, V.
 4105 Antoniadou, D.
 4105 Antoniglou, O.
 6890 Antonov, V. K.
 4612 Antonovskaja, N. S.
 7343 Antony, A.
 634 Antosz, F. J.
 10064 Antoun, H.
 1575 Antsiferova, N. G.
 9017 Antunovic-Tomasevic, N.
 4360 Aoi, H. C.
 2526 Aoi, Y.
 5997 Aoi, Y.
 1434 Aoki, H.
 7440 Aoki, H.
 9358 Aoki, K.
 9359 Aoki, K.
 7807 Aoki, S.
 885 Aonuma, S.
 4050 Aoshima, H.
 5155 Aoyagi, T.
 10409 Aoyama, M.
 462 Apel, W. A.
 7183 Apfelbaum, A.
 7571 Apicella, M. A.
 5973 Apirion, D.
 6938 Apirion, D.
 10115 Appleyard, G.
 8822 Apt, W. J.
 9878 Aragaki, M.
 467 Araki, H.
 2567 Araki, I.
 9667 Araki, I.
 1814 Araki, K.
 3337 Araki, M.
 5741 Araki, M.
 5742 Araki, M.
 8343 Araki, S.
 9481 Araki, S.
 2263 Araki, T.
 2264 Araki, T.
 10176 Araki, T.
 7786 Arakawa, A.
 6845 Arakelova, V. A.
 3524 Arase, S.
 10326 Araviisky, R. A.
 8349 Aravina, L. A.
 8389 Aravina, L. A.
 5005 Arber, W.
 92 Arbetova, D.
 5936 Arbuthnott, J. P.
 3068 Arcamone, F.
 9121 Arcamone, F.
 2415 Archer, M. C.
 2521 Archer, M. C.
 8426 Archer, R. A.
 8427 Archer, R. A.
 3814 Archier, G.
 2054 Ardakani, M. S.
 9169 Ardehal, M.
 3029 Arend, P.
 3878 Arendarskaya, L. S.
 9868 Arenstein, Z.
 4830 Argenti, D. G.
 5113 Argoudelis, A. D.
 5733 Argoudelis, A. D.
 5734 Argoudelis, A. D.
 5758 Argoudelis, A. D.
 5759 Argoudelis, A. D.
 6637 Argoudelis, A. D.
 1401 Arima, K.
 2426 Arima, K.
 2477 Arima, K.
 2478 Arima, K.
 2481 Arima, K.
 5757 Arima, K.
 7653 Arima, K.
 8370 Arima, K.
 9501 Arima, K. (Contd)
 353 Arinze, A. E.
 1419 Arioli, V.
 1385 Arison, B. H.
 8150 Arita, T.
 3353 Ariva, A. J.
 9121 Arlandini, E.
 135 Arledge, W. L.
 2791 Arneson, P. A.
 1519 Arnold, H.
 2290 Arnold, H.
 7102 Arnold, J. R.
 7377 Arnold, K.
 910 Arnold, R.
 134 Arnold, R. G.
 8787 Arnold, R. M.
 3204 Arnold, W. N.
 3338 Arnone, A.
 9575 Arnett, D. R.
 4966 Arnou, P. M.
 1877 Arny, D. C.
 6422 Arora, D. K.
 10051 Arora, D. K.
 6307 Arroyo, A.
 105 Arroyo, V.
 3813 Arroyo, V.
 2624 Arseculeratne, S. N.
 9844 Arsenijevic, M.
 3723 Arthur, J. C. Jr.
 4988 Artis, W. M.
 8002 Artman, J. D.
 8054 Arutyunyan, A. V.
 1888 Arya, H. C.
 10170 Arya, P.
 4835 Arya, S. C.
 3715 Arya, S. K.
 9004 Arya, V. P.
 9005 Arya, V. P.
 7605 Arzamazova, N. M.
 2486 Asada, K.
 2244 Asai, M.
 6561 Asako, T.
 10348 Asano, K.
 10349 Asano, K.
 1272 Asano, S.
 8373 Asatsuma, K.
 5403 Asay, K. H.
 6745 Ash, C.
 8113 Ashby, B. L.
 3461 Ashby, J. W.
 9246 Ashby, R. E.
 10175 Asher, W. D. Jr.
 6617 Asher, I. M.
 8197 Asher, I. M.
 8198 Asher, I. M.
 8085 Asher, Y.
 2301 Ashley, C. S.
 10459 Ashley, C. S.
 445 Ashour, N. I.
 3634 Ashraf, S.
 2703 Ashrafuzzaman, M. H.
 7231 Ashton, D. H.
 5136 Ashton, F. E.
 542 Ashwood-Smith, M. J.
 5362 Ashworth, L. J. Jr.
 5483 Ashworth, L. J. Jr.
 7182 Asjes, C. J.
 7685 Asou, M.
 2447 Asperger, O.
 9053 Assad, A. A.
 10321 Assandri, A.
 7065 Assanter, G.
 7826 Assanter, G.
 8756 Assawaha, M. W.
 10225 Asscher, A. W.
 9429 Astapovich, N. I.
 8110 Astashkina, V. L.
 10184 Aswell, J. F.
 6230 Asy, H. I.
 7676 Aszalos, A.

Author index

- 2527 Aszalos, A. A.
8418 Aszalos, A. A.
9459 Aszalos, A. A.
7612 Atallah, M. T.
2278 Atanasius, P.
2731 Atanda, O. A.
1211 Athar, M. A.
118 Atherholt, T.
6041 Atherton, H. V.
7834 Athanasios, A. K.
6202 Athow, K. L.
4070 Atkinson, A.
5143 Atkinson, A.
3352 Atkinson, B.
6583 Atkinson, B.
8464 Atkinson, N.
7621 Atkinson, T.
8626 Atkinson, T. G.
6462 Atlas, R. M.
8940 Atlas, R. M.
10107 Atlas, R. M.
6640 Atsumi, K.
9413 Atsusaka, T.
1670 Attwood, M. M.
9187 Atwell, J. S.
9431 Auberger, B.
2969 Aubertin, J.
9567 Auclair, J.
10396 Auden, A. A. L.
10239 Audurier, A.
8513 Auerman, L. Ya.
9402 Auerman, T. L.
6405 Aufsess, H. v.
1214 Augustyniak, B.
2716 Aujla, S. S.
2781 Aujla, S. S.
2784 Aujla, S. S.
4308 Auld, D. L.
7200 Auld, D. L.
6912 Aurebekk, B.
2447 Aurich, H.
8856 Aurich, H.
6545 Ausila-Bianco, M.
4324 Aust, H. J.
9774 Aust, H. J.
7290 Austin, B.
7889 Austin, B.
10109 Austin, B.
10111 Austin, B.
775 Avens, J. S.
3378 Avens, J. S.
9119 Avery, H. E.
2236 Avery, G. S.
1052 Awasthi, D. N.
1053 Awasthi, D. N.
3530 Awasthi, L. P.
5128 Aways, J.
6940 Aways, J.
9466 Aways, J.
10345 Aways, J.
5690 Ax, H. A.
5920 Axen, R.
456 Ayanaba, A.
8911 Ayanaba, A.
2655 Aycock, R.
275 Ayers, J. E.
5325 Ayers, J. E.
5327 Ayers, J. E.
10559 Ayers, L. W.
2069 Ayers, W. A.
5480 Ayers, W. A.
7302 Ayliffer, G. A. J.
9030 Ayotte, D. L.
2636 Ayres, J. C.
2637 Ayres, J. C.
8293 Ayres, J. C.
2850 Ayres, P. G.
4306 Ayres, P. G.
6190 Ayres, P. G.
9767 Ayres, P. G.
3400 Ayroulet, M.
1076 Azariah, M. D.
7583 Azevedo, J. L.
8873 Azizbekyan, R. R.
6463 Azoulay, E.
6464 Azoulay, E.
6465 Azoulay, E.
8952 Azuma, A.
7332 Azuma, K.
3878 Azykovskaya, I. S.
2662 Baare, V. B.
4192 Baath, C.
5315 Babbar, O. P.
495 Babcock, W. E.
6454 Babich, H.
6455 Babich, H.
8018 Babich, H.
10079 Babiker, A. G. T.
4291 Babilas, W.
4315 Babilas, W.
4364 Babilas, W.
10484 Babinchak, J. A.
2430 Babitskaya, V. G.
1840 Babovic, M. V.
490 Baca, B.
3827 Bacc, L.
5673 Bach, V.
10232 Bach, V.
8135 Bach, V. T.
6665 Bachelet, J. -P.
585 Bachi, M. D.
10300 Bachi, M. D.
4018 Bachini, V.
660 Bachmayer, H.
3820 Bachmayer, H.
5777 Bachofen, R.
1179 Eachofer, R.
3394 Bachryj, F.
3406 Bachryj, F.
8418 Bachur, N. R.
2016 Backman, P. A.
2086 Backman, P. A.
9957 Backman, P. A.
1769 Bacon, C. W.
6144 Bacon, C. W.
1097 Bacon, O. G.
3252 Bacova, M.
3253 Bacova, M.
3254 Bacova, M.
8441 Bacvarov, C.
6637 Baczynski, L.
5729 Baczynski, L.
5733 Baczynski, L.
5734 Baczynski, L.
10124 Badal, R. E.
9473 Badar, Y.
5543 Baddiley, J.
2152 Badiger, V. V.
5951 Badr El-Din, S. M.
6230 Badr El-Din, S. M.
1987 Badwal, S. S.
8449 Baev, V. I.
4086 Baeva, A. A.
6890 Baeva, V. S.
9270 Bagadi, H. O.
7370 Bagby, M. K.
7662 Bagdasaryan, Z. N.
1097 Baghott, K. G.
7498 Bagley, S. T.
1347 Bagnasco, A.
4502 Bahadur, P.
10165 Bahadur, S.
9882 Bahal, V. K.
3465 Bahdur, P.
2955 Bahel, S. C.
2957 Bahel, S. C.
2958 Bahel, S. C.
3701 Bahel, S. C.
5575 Bahel, S. C.
5577 Bahel, S. C. (Contd)
8073 Bahel, S. C.
264 Bahl, N.
1100 Bahl, N.
7587 Bahr, G. F.
1252 Bahuguina, L. M.
5545 Baiat-Mokhtar, P.
1262 Baijal, G.
6928 Bailey, A. S.
3720 Bailey, A. V.
10449 Bailey, D. A.
4746 Bailey, E. G.
4678 Bailey, J.
6349 Bailey, J. A.
6892 Bailey, J. E.
7627 Bailey, J. E.
167 Bailey, J. S.
1787 Bailey, J. S.
10262 Bailey, J. V.
441 Bailey, L. D.
1454 Bailey, M.
2511 Bailey, R. W.
7073 Bailey, W. J.
1191 Baillie, E.
3522 Baines, P. S.
8070 Bainotti, F.
948 Bains, B. S.
6186 Bains, S. S.
10135 Bair-Mokhtar, P.
4070 Baird, J. K.
3129 Baird, R. M.
10493 Baird, R. M.
10505 Baird, R. M.
906 Baird-Parker, A. C.
1729 Baisya, R. K.
9443 Bajpai, B. K.
535 Bajusz, S.
266 Bajwa, M. N.
1240 Bakalova, D.
1910 Bakashi, B. K.
9388 Bakenfeld, L. S.
2811 Baker, A. S.
4281 Baker, D. H.
7033 Baker, D. H.
1548 Baker, K. F.
8598 Baker, K. F.
1963 Baker, L. A. E.
5412 Baker, R.
7258 Baker, R.
5055 Bakhtadze, L. N.
8248 Bakker, P. G. H.
2167 Bakker-De Koff, E. C.
8247 Bakker, G. H.
5445 Bakshi, B. K.
9676 Bala, K.
9415 Balakrishnan, C. V.
4149 Balan, J.
5616 Balan, J.
6866 Balandina, G. N.
5616 Balanova, J.
5617 Balanova, J.
9236 Balaprakasam, R. A.
3069 Balashova, T. A.
4829 Balashova, T. A.
3650 Balasundaram, V. R.
2856 Balasubramanian, A.
3627 Balasubramanian, A.
1037 Balasubramanian, K. A.
1107 Balasubramanian, K. A.
10076 Balasubramanian, M.
3641 Balasubramanian, V.
6444 Balasubramanian, V.
6723 Balatoni, M.
9436 Balatscheffsky, H.
5851 Balatti, A. P.
9789 Balaz, F.
5234 Balazinska, L.
3827 Balazs, D.
3534 Balazs, E.
3535 Balazs, E.

Author index

- 1650 Balch, W. E.
- 4954 Balch, W. E.
- 4873 Balderston, W. L.
- 6188 Baldev, B.
- 7505 Baldini, M. M.
- 9577 Baldini, P.
- 5231 Baldrich, E.
- 2406 Baldry, P.
- 5834 Baldwin, A. W. F.
- 7042 Baldwin, B. B.
- 10164 Baley, G. J.
- 5862 Balint, K.
- 656 Balis, J.
- 6752 Balish, E.
- 4769 Balitsky, V. A.
- 8866 Balkwill, D. L.
- 1821 Ball, E. M.
- 8534 Ball, R.
- 3550 Balla, L.
- 7163 Ballantine, E. M.
- 7225 Ballinger, D. J.
- 941 Balloni, W.
- 9513 Balloni, W.
- 4119 Ballou, C. E.
- 7778 Balloun, S. L.
- 8229 Balluz, S. A.
- 4643 Balogova, O.
- 580 Balsamo, A.
- 9966 Baltzakis, N. G.
- 4576 Baluja, G.
- 6477 Balzer, K.
- 5249 Bam, K.
- 6904 Bamforth, C. W.
- 7246 Bamforth, S. S.
- 994 Banasiewicz, R.
- 7697 Banasik, O. J.
- 4030 Bandlow, W.
- 519 Bandu, M. -T.
- 1528 Bandy, P.
- 3268 Bandyopadhyay, A. K.
- 7873 Bandyopadhyay, D.
- 8801 Bandyopadhyay, S.
- 3783 Bandyopadhyay, S. K.
- 5567 Banerjee, A.
- 3695 Banerjee, A. B.
- 3649 Banerjee, A. K.
- 6831 Banerjee, A. K.
- 2928 Banerjee, D. K.
- 5359 Banerjee, M.
- 10386 Banerjee, P. C.
- 10387 Banerjee, P. C.
- 5735 Banerji, A.
- 2304 Banerji, S. C.
- 8957 Bang, J.
- 7645 Bang, S. S.
- 2748 Banihashemi, Z.
- 4244 Banik, A. K.
- 4245 Banik, A. K.
- 8323 Banik, A. K.
- 10164 Banker, G. S.
- 10641 Bankovskii, A.
- 6687 Banks, C. J.
- 2776 Banks, D. J.
- 4642 Bannatyne, R. M.
- 5693 Bannatyne, R. M.
- 25 Bannerman, E. N.
- 1572 Bannister, E. R.
- 5958 Bannister, J. V.
- 5958 Bannister, W. H.
- 5065 Banno, I.
- 7678 Bano, M.
- 9301 Bansal, M. P.
- 4327 Banttari, E. E.
- 8625 Banttari, E. E.
- 7717 Bantwart, G. J.
- 4352 Banyer, R. J.
- 5367 Bar-Joseph, M.
- 7061 Bara, A.
- 6592 Barabas, G.
- 8566 Barabolak, R.
- 216 Barach, J. T.
- 3341 Barada, M.
- 6286 Baramidze, V. G.
- 8346 Baraniak, A.
- 2282 Baranov, E. N.
- 4818 Baranova, I. P.
- 9853 Barash, I.
- 4792 Barashkova, N. P.
- 5740 Barashkova, N. P.
- 4669 Barathova, H.
- 3735 Barbeito, M. S.
- 5470 Barber, D. A.
- 453 Barber, L. E.
- 6292 Barbetti, M. F.
- 3598 Barbetti, M. J.
- 6552 Barbhaiya, R. H.
- 466 Barbic, F. F.
- 7072 Barbier, M.
- 5375 Barbieri, N.
- 2227 Barbiers, A. R.
- 4874 Barbosa, M.
- 6423 Barbosa, M.
- 3450 Barbuti, S.
- 3750 Barbuti, S.
- 2127 Bardos, T. J.
- 8038 Barea, J. M.
- 7330 Barelli, M.
- 2097 Barjot, J.
- 4438 Barkai-Golan, R.
- 7183 Barkai-Golan, R.
- 9919 Barkai-Golan, R.
- 7589 Barkely, M. B.
- 1007 Barker, H.
- 7632 Barker, H. A.
- 197 Barker, J. W.
- 1167 Barker, K. R.
- 2059 Barker, K. R.
- 1620 Barker, S. A.
- 41444 Barkes, L.
- 7412 Barkin, R. M.
- 8780 Barksdale, T. H.
- 7285 Barlow, J. R.
- 7286 Barlow, J. R.
- 1010 Barman, B.
- 5401 Barmore, C. R.
- 3525 Barna, B.
- 3534 Barna, B.
- 10497 Barnard, S. E.
- 2579 Barnees, E. M.
- 1977 Barnes, D. K.
- 7108 Barnes, D. K.
- 1537 Barnes, G. P.
- 6839 Barnes, M. F.
- 5995 Barnes, W. R.
- 3041 Barnett, J. E. G.
- 5681 Barnett, J. E. G.
- 7918 Barnett, O. W.
- 8607 Barnett, O. W.
- 9702 Barnett, R.
- 1821 Barnhart, H. M.
- 10626 Baron, S.
- 8650 Barr, D. J. S.
- 6132 Barr, E. W.
- 7676 Barr, E. W.
- 4949 Barr, J. G.
- 5262 Barr, J. G.
- 7564 Barr, J. G.
- 26 Barracough, N.
- 5858 Barran, L. R.
- 10050 Barre, N.
- 10251 Barrett, A. G. M.
- 3998 Barrett, F. F.
- 4041 Barridge, B. D.
- 7362 Barriere, S. L.
- 4767 Barrington, J. C.
- 9043 Barros, F.
- 4720 Barry, A. L.
- 10124 Barry, A. L.
- 10277 Barry, A. L.
- 10553 Barry, A. L.
- 3557 Barry, B. D.
- 10016 Barry, F. H.
- 6105 Barry, T. N.
- 246 Barsumian, E. L.
- 9322 Barta, J.
- 5172 Bartels, H.
- 4264 Bartels, O.
- 3426 Bartenschlager, M.
- 7371 Barth Reller, L.
- 7142 Barthas, L.
- 480 Barthas, R.
- 8629 Barthakur, N.
- 6900 Barthelemy, M.
- 7634 Barthelemy, M.
- 8368 Barthelemy, M.
- 6979 Bartholomew, B.
- 7771 Bartholomew, D. T.
- 7772 Bartholomew, D. T.
- 1324 Bartholomew, L.
- 1457 Bartholomew, W. V.
- 2405 Bartlett, R. C.
- 10251 Barton, D. H. R.
- 4136 Barton, H.
- 5845 Barton, L. L.
- 6163 Barton, R. J.
- 9299 Barton, R. J.
- 1300 Bartoshevich, Yu. E.
- 4739 Bartoshevich, Yu. E.
- 5667 Bartoshevich, Yu. E.
- 6579 Bartoshevich, Yu. E.
- 9092 Bartoshevich, Yu. E.
- 9137 Bartoshevich, Yu. E.
- 9156 Bartoshevich, Yu. E.
- 3558 Barua, B. L.
- 1079 Baruah, H. K.
- 5514 Baruah, J. N.
- 7291 Baruah, J. N.
- 1303 Barza, M.
- 7411 Barza, M.
- 10268 Barza, M.
- 91 Basarova, G.
- 7696 Basarova, G.
- 5662 Basch, H.
- 6109 Baser, J.
- 8390 Basha, S. M. M.
- 8856 Basham, J. T.
- 6352 Bashir, E.
- 7943 Bashir, E.
- 237 Basile, A. -M.
- 2428 Basitskaya, V. G.
- 3946 Baskanyan, I. A.
- 9052 Basker, M. J.
- 9485 Baskevitch, Z.
- 6963 Baskevitch-Varon, Z.
- 6772 Basnakyan, I. A.
- 4007 Basova, N. N.
- 3693 Bass, G. E.
- 5524 Bass, T. M.
- 8032 Bassett, D.
- 8033 Bassett, B.
- 4183 Bassi, M.
- 5375 Bassi, M.
- 9836 Bassi, M.
- 3779 Bassignani, L.
- 3780 Bassignani, L.
- 4686 Bassilev, G.
- 564 Bassoi, O. N.
- 3276 Bastide, M.
- 7828 Bastos, C. N.
- 8496 Bastuskova, M.
- 7992 Basu Chaudhary, K. C.
- 4430 Basu, B.
- 4307 Basu, P. K.
- 6176 Basu, P. K.
- 5779 Basu, S.
- 3203 Basu, T. K.
- 6268 Basuchaudhary, K. C.
- 9001 Batalina, T. A.
- 3924 Batchelor, B. G.
- 9390 Bateman, D. F.

Author index

- 291 Bateman, G. L.
4353 Bateman, G. L.
6378 Bateman, G. L.
9433 Bates, D. L.
7837 Bates, F.
7838 Bates, F.
6117 Bathon, H.
4163 Batra, L. R.
2530 Batrakovs, S. G.
986 Batt, R. D.
6950 Battersby, A. R.
6951 Battersby, A. R.
9742 Battistini, A.
160 Battistotti, B.
9233 Baublis, J.
7234 Bauch, J.
7008 Bauer, E.
774 Bauer, S.
4902 Bauer, S.
9390 Bauer, W. D.
6938 Bauley, S. C.
34 Baulieu, E. E.
1303 Baum, J.
4712 Baum, J. L.
4332 Bauman, L. F.
7067 Baumann, L. F.
6684 Baumann, E. R.
7645 Baumann, P.
9467 Baumert, A.
9635 Baumgardt, B. R.
9646 Baumgardt, B. R.
2618 Baumgart, J.
4797 Baute, M. A.
4797 Baute, R.
349 Bautista, O. K.
3394 Pawlik, I.
7695 Baxar, S.
9951 Baxter, L. W. Jr.
6414 Bayar, A. M.
8332 Bayley, P. M.
2933 Bayliss, C. E.
121 Bayne, H. G.
109 Baynes-Cope, D.
8310 Bazarova, O. V.
6463 Bazin, H.
6464 Bazin, H.
6465 Bazin, H.
5199 Bazzani, M.
2840 Bazzigher, G.
6922 Beabealashvili, R. Sh.
6923 Beabealashvili, R. Sh.
2144 Beal, J. L.
6663 Beale, A. J.
8036 Beam, H. W.
5641 Beamant, T. G.
5045 Bean, G. A.
3402 Bean, M. M.
333 Beard, B. H.
682 Beardsley, J. A.
663 Pearce, A. S.
5936 Beastall, G. H.
6434 Beauchamp, E. G.
7844 Beauvery, E. C.
4635 Bebear, C.
6696 Bebin, J.
7016 Beck, G.
6870 Beck, R. S.
1275 Beck, W. C.
649 Beckers, A. M.
1234 Beckers, J. M.
3699 Beckers, R. O.
8085 Becker, Y.
9452 Becker, Y.
6064 Beckett, D. C.
1923 Beckman, C. H.
3228 Beckmann, W.
6789 Becla, E.
2793 Beczner, J.
3525 Beczner, J.
4249 Bedford, C. L.
8068 Bedford, K. A.
4059 Bedi, P. S.
7112 Bedi, P. S.
892 Bednarski, W.
1718 Bednarski, W.
8518 Bedner, W.
3962 Beebe, J. L.
1790 Beebe, S. D.
2614 Beebe, S. D.
8763 Beebe, S. E.
4759 Beeby, P. J.
5069 Beeley, J. A.
7303 Beelman, R. B.
326 Beemster, A. B. R.
7948 Been, B. O.
1519 Beer, K.
2290 Beer, K.
2028 Beer, S. V.
2822 Beer, S. V.
7024 Beerens, H.
4437 Beerh, O. P.
10260 Beert, J.
8875 Beerwerth, W.
6108 Beever, D. E.
2982 Beezer, A. E.
5695 Beezer, A. E.
7644 Beezins, L. V.
4670 Beggs, W. H.
4742 Beggs, W. H.
7416 Beggs, W. H.
8990 Beggs, W. H.
7087 Beglau, J. M.
1915 Begtrup, J.
9369 Beguin, P.
6231 Behki, R. M.
9030 Behme, R. J.
261 Behncken, G. M.
9524 Behnke, B. K.
9524 Behnke, E. R.
10499 Behr, C.
10028 Behr, E. A.
3205 Behrens, F.
7836 Behrens, J. C.
6826 Behrens, U.
8409 Behrens, U.
8563 Behringer, G.
686 Behrman, B. W.
7333 Behun, M.
9764 Beier, H.
6768 Beighton, D.
46 Beilaeva, M. I.
6841 Bekassy-Molnar, E.
1575 Bekbergenov, B. M.
2878 Bekcer, D. A.
8376 Bekes, F.
5867 Bekesi, L.
4707 Bekker-Holtman, J.
3523 Bel'skaya, S. I.
5975 Belaevar, R. K.
3898 Belakovsky, M. S.
2697 Belaonova, L. I.
5641 Belding, R. C.
6586 Belevich, E. M.
10249 Belevich, E. M.
6906 Beliaeva, M. I.
3148 Belitz, G.
8075 Beliveau, J.
6992 Bell, G.
6697 Bell, J. B.
6724 Bell, J. B.
3201 Bell, J. V.
4113 Bell, M. V.
4607 Bell, R. G.
8775 Bell, R. L.
3242 Bellamy, W. D.
9345 Bellamy, W. D.
4860 Bellanca, M. A.
9867 Bellegarde, H.
2338 Bellelli, E.
3133 Bellelli, E.
4878 Bellelli, E. (Contd)
4879 Bellelli, E.
2401 Bellet, F.
6347 Belliard-Alonzo, L.
818 Bellinger, M. A.
5564 Bellini, A. M.
5565 Bellini, A. M.
828 Belous, G. K.
10241 Belous, Zh. V.
565 Belousova, I. I.
4639 Belousova, I. I.
5645 Belousova, N. I.
8942 Belova, L. A.
2915 Belova, V. S.
4619 Belvins, W. T.
5668 Belyanina, V. F.
1210 Belyavskaya, I. V.
1382 Belyavskaya, I. V.
3054 Belyavskaya, I. V.
1749 Bem, Z.
6083 Bem, Z.
4132 Ben-Aziz, A.
7679 Ben-Aziz, A.
5900 Ben-Bassat, A.
1170 Ben-Yephet, Y.
9452 Ben-Zeev, A.
8564 Benard, G.
8133 Benassi, C. A.
10433 Benda, V.
4089 Bender, H.
5940 Bender, H.
2641 Bender, T. R.
2713 Bendre, N. J.
6660 Bendush, C. L.
1014 Benedict, C. R.
10451 Benedict, R. G.
2186 Benedictson, J.
8657 Benedikz, P. W.
7248 Benefield, C. B.
6784 Benetti, L.
10557 Benetti, L.
8477 Bengsch, H.
7304 Bengtsson, S.
10491 Bengtsson, S.
3277 Benitez, T.
7876 Benken, A. A.
2792 Benken, I. I.
241 Bennett, G. A.
991 Bennett, G. A.
5267 Bennett, J. W.
6131 Bennett, J. W.
995 Bennett, R. W.
3451 Bennett, R. W.
2152 Bennur, R. S.
2152 Bennur, S. C.
6143 Benor, M. A.
6988 Bense, G. T.
6944 Benson, D. L.
5390 Bentley, K.
2104 Benveniste, R. E.
2648 Beograd, V. f.
1401 Beppa, T.
2426 Beppu, T.
2477 Beppu, T.
2478 Beppu, T.
2481 Beppu, T.
5757 Beppu, T.
7653 Beppu, T.
8370 Beppu, T.
310 Beraha, L.
10116 Berchtold, M.
7560 Berdal, B. P.
8971 Berdinskii, I. S.
9118 Berdnikova, T. F.
236 Beresteckij, O. A.
424 Berestetskij, O. A.
1417 Beretta, G.
4769 Berezinskaya, V. V.
4100 Berezin, I. V.
4101 Berezin, I. V.

Author index

- 5964 Berezin, J. V.
 4722 Berezina, E. K.
 4791 Berezina, E. K.
 5684 Berezina, E. K.
 4851 Bereznikovskaya, L. V.
 3928 Berezvai, F.
 6873 Berg, B.
 3314 Berg, C. M.
 9062 Berg, C. M.
 2241 Berg, D. H.
 7043 Berg, K.
 4348 Berg, M. A.
 4018 Bergamini, N.
 4544 Bergdahl, D. R.
 4546 Bergdahl, D. R.
 2530 Bergelson, L. D.
 8732 Bergen, P.
 6837 Bergen, W. G.
 3699 Berger, T. J.
 1693 Berger, Y.
 3390 Bergere, J. L.
 2997 Bergher, D. V.
 3488 Bergman, J. W.
 6830 Bergman, R.
 9172 Bergmann, I.
 5563 Bergoglio, M. C. D.
 4779 Bergogne-Berezin, E.
 6805 Bergstrom, S. L.
 5920 Bergwall, R.
 3741 Berhelin, R.
 4591 Beringer, J. E.
 6446 Beringer, J. E.
 2636 Berisford, Y. C.
 2637 Berisford, Y. C.
 1674 Berenkamp, B.
 9661 Berkowitz, D.
 3373 Berkowitz, K. A.
 5016 Berlin, E.
 3444 Bernan, D. T.
 7549 Bernard, P. D.
 9577 Bernardi, E. P.
 8442 Bernat, J. A.
 3971 Bernath, S.
 6199 Bernaux, P.
 9769 Bernaux, P. C.
 3866 Berndorfer-Kraszner, E.
 3145 Berner, H.
 8254 Berner, H.
 724 Berner, N. H.
 10104 Berner, N. H.
 4017 Bernheimer, A. W.
 1882 Bernier, C. C.
 4043 Bernsteina, A.
 7995 Bernsteina, M. E.
 4201 Berridge, N. J.
 5219 Berridge, N. J.
 6659 Berruecos, P.
 174 Berry, B. W.
 3601 Berry, C. R.
 418 Berry, F. H.
 2696 Berry, R. W.
 9106 Bernstein, E. M.
 9105 Bernstein, I. Ya.
 10624 Bersten, A. M.
 2291 Berthouex, P. M.
 1419 Bertin, M.
 8096 Bertin, M.
 10321 Bertin, M.
 2280 Bertland, A. U.
 5809 Bertling, L.
 6463 Bertrand, J. C.
 6464 Bertrand, J. C.
 6465 Bertrand, J. C.
 1907 Bertrand, P. F.
 2547 Bertuccioli, M.
 8843 Bertus, A. L.
 3499 Besada, W. H.
 3507 Besada, W. H.
 3570 Besemer, S.
 7851 Besovar, S. A.
 9904 Besri, M.
 7897 Bessel'tsev, V. I.
 5743 Besson, F.
 4527 Best, G. R.
 3204 Bestic, P. B.
 7008 Bethcke, M. M.
 3491 Betheno, O.
 4669 Bettina, V.
 7263 Bettlach, M. R.
 5189 Bettrabet, S. M.
 4940 Bettenhausen, C. W.
 886 Better, J.
 7098 Bettin, K. M.
 5375 Betto, E.
 9716 Betts, R. E.
 640 Betts, R. F.
 1607 Betts, R. F.
 1763 Beuchat, L. R.
 2595 Beuchat, L. R.
 3407 Beuchat, L. R.
 3408 Beuchat, L. R.
 3423 Beuchat, L. R.
 4252 Beuchat, L. R.
 6092 Beuchat, L. R.
 8290 Beuchat, L. R.
 8390 Beuchat, L. R.
 9289 Beuchat, L. R.
 3397 Beumer, R.
 1817 Beuss, A.
 1167 Beute, M. K.
 8766 Beute, M. K.
 9960 Beute, M. K.
 4985 Bevan, R.
 8133 Bevilacqua, R.
 5158 Bevenko, T. M.
 8230 Bew, J.
 9914 Bewaji, O.
 8162 Bewick, M. W. M.
 10444 Beyer, T. V.
 4442 Beyers, M.
 6432 Beyries, A.
 10460 Beytout, D.
 9662 Bezborodova, A. M.
 7662 Bezborodova, S. I.
 2797 Bezgedy, E.
 7027 Bhandari, S. D.
 1173 Bhangoo, M. S.
 8224 Bharadwaj, R. K.
 1937 Bharatudu, C.
 5378 Bhargava, B.
 8673 Bhargava, B.
 4224 Bhargava, K. S.
 5359 Bhargava, K. S.
 5460 Bhargava, K. S.
 7105 Bhargava, K. S.
 9443 Bhargava, R.
 1931 Bhargava, S. N.
 2767 Bhargava, S. N.
 5365 Bhargava, S. N.
 1931 Bhargava, V.
 2749 Bhargava, V.
 4395 Bhargava, V.
 8629 Bhartendu
 5955 Bhasin, D. P.
 8643 Bhat, R. V.
 903 Bhat, S. G.
 1659 Bhat, S. G.
 8976 Bhat, S. V.
 9337 Bhattacharjee, J. K.
 5192 Bhattacharyya, P. K.
 111 Bhattacharyya, S. K.
 327 Bhattacharyya, S. K.
 90 Bhavaraju, S. M.
 1856 Bhide, V. P.
 1102 Bhowmik, T. P.
 6302 Bhowmik, T. P.
 7266 Bhuiya, Z. H.
 1253 Bialek, J.
 6520 Bialek, J.
 9002 Bianco, M. A.
 6488 Bibb, M. J.
 5816 Bibel, D. J.
 10588 Bibel, D. J.
 489 Biber, J.
 6860 Biber, J.
 3829 Bica, L.
 3878 Bichul, K. G.
 7007 Bieder, S. L.
 10037 Biederbeck, V. O.
 697 Biedermann, N.
 3043 Biedzycki, M.
 2494 Bieliauskaitė, I. P.
 3313 Bieliauskaitė, I. P.
 8526 Bielig, H. J.
 233 Biemann, K.
 204 Bierter, B. W.
 3699 Bierman, R.
 3672 Bieth, G.
 3675 Bigelow, J.
 7582 Bijkerk, A. H. E.
 7785 Bikin, H.
 4499 Bilaj, V. I.
 3749 Bilinskas, K.
 9736 Bilinskas, M.
 6578 Bill, N. J.
 10239 Billaudel, S.
 10240 Billaudel, S.
 7550 Billaut, A.
 3328 Billes, G.
 3329 Billes, G.
 10179 Billiau, J.
 4602 Bin Sahid, I.
 7934 Binder, R. G.
 6300 Bindu, K. J.
 7621 Bingham, A. H. A.
 6801 Bink, H.
 3083 Binnie, P. W. H.
 6887 Binstock, J. F.
 675 Bintanja, H. H. J.
 85 Birch, A. J.
 9801 Bird, A. F.
 5302 Bird, J.
 8854 Birkholz-Lambrecht, A. F.
 1374 Birlova, L. V.
 6602 Birlova, L. V.
 9105 Birman, G. Sh.
 4800 Birnbaum, J.
 7403 Birnbaum, J.
 4945 Birnbaum, J.
 1379 Biruykov, V. V.
 3052 Biruykov, V. V.
 4782 Biruykov, V. V.
 5669 Biruykov, V. V.
 10328 Biruykov, V. V.
 7643 Bisen, P. S.
 5145 Bishop, G. G.
 7253 Bishop, P. E.
 9756 Bisiach, M.
 4644 Bismuth, R.
 6119 Bisping, W.
 9682 Bisping, W.
 6720 Bissonnette, G. K.
 1230 Biswas, A. K.
 7992 Biswas, K.
 1162 Bitjukova, L. B.
 799 Bittiger, M.
 3892 Bitton, G.
 4565 Bitton, G.
 4606 Bitton, G.
 1813 Bizzini, B.
 2609 Bjork, L.
 7090 Bjorn, M. J.
 24 Bjurr, R. A.
 9030 Black, B. L.
 4249 Black, D.
 1586 Black, D. A.
 5847 Black, F. T.
 3772 Black, H. R.
 949 Black, L.
 5069 Black, P. M.

Author index

- 8878 Black, R. L. B.
 7863 Black, T. A.
 8685 Black, T. A.
 2051 Black, W. M.
 7118 Blackie, M. J.
 526 Blackman, J.
 5217 Blackman, J.
 8890 Blackmer, A. M.
 588 Blackwell, C. C.
 3391 Blackwell, J. H.
 9541 Blackwell, J. H.
 359 Blaha, G.
 9183 Blahna, F.
 10351 Blair, B.
 4938 Blake, I. G.
 3315 Blake, R.
 796 Blakebrough, N.
 10644 Blakebrough, N.
 4573 Blakeman, J. P.
 10419 Blakeslee, J. R.
 2040 Blalock, T. E.
 5263 Blanc, M.
 90 Blanch, H. W.
 6967 Blanch, H. W.
 8264 Blanch, H. W.
 2554 Blanchard, F. A.
 4666 Blanchard, P.
 3454 Blanchard, R. O.
 6008 Blanchfield, B. J.
 275 Blanco, M. H.
 9784 Blanco, M. H.
 7356 Blancou, J.
 3645 Blandareau, J.
 6072 Blankenship, L. C.
 6584 Blanpain, P.
 10634 Blaskovic, P.
 5384 Blaszyk, M.
 7221 Blattny, C.
 8676 Blattny, C.
 7305 Blazeovic, D.
 1617 Blazeovic, D. J.
 5835 Blazeovic, D. J.
 1919 Blazquez, C. H.
 4660 Bleackley, R. C.
 591 Bleaney, R. C.
 904 Blecher, R.
 8455 Blecher, R.
 5618 Blinov, N. O.
 8763 Bliss, F. A.
 8764 Bliss, F. A.
 7650 Bliss, F. M.
 1176 Blobel, F.
 1177 Blobel, F.
 5196 Blobel, F.
 5197 Blobel, F.
 8396 Blobel, H.
 2805 Bloch, E. O.
 5376 Blok, I.
 3849 Blok, J.
 6703 Blok, J.
 5119 Blokhin, V. A.
 1608 Blomberg, J.
 3628 Blondeau, R.
 6440 Blondeau, R.
 1094 Blonska-Pawiak, A.
 2832 Bloomberg, W. J.
 1583 Bloomquist, C. G.
 7742 Bloquel, R.
 5690 Blount, J. F.
 260 Blount, V. L.
 2885 Blows, W. M.
 3517 Blue, R. L.
 8663 Blue, R. L.
 9831 Blue, R. L.
 6642 Blumauerova, M.
 10369 Blumauerova, M.
 7537 Blumberg, G.
 7771 Blumer, T. N.
 7772 Blumer, T. N.
 1883 Boartynska, W.
 5168 Boatwright, J.
 5170 Boatwright, J.
 6399 Boccardo, G.
 954 Boccia, A.
 10190 Boccia, A.
 8133 Boccu, E.
 5796 Bochand, J. M.
 1095 Bochev, B.
 4452 Bochev, B.
 6757 Bochner, B. R.
 6181 Bock, K. R.
 265 Bockelee-Morvan, A.
 4936 Bockemuhl, J.
 8289 Bockemuhl, J.
 9146 Bocker, H.
 10394 Bocker, H.
 1423 Bodanszky, M.
 2060 Bodenstein, J.
 2274 Bodey, G. P.
 4905 Bodey, G. P.
 5657 Bodey, G. P.
 5672 Bodey, G. P.
 8155 Bodey, G. P.
 9145 Bodey, G. P.
 5701 Bodinkova, L. E.
 7036 Bodoh, G. W.
 7304 Bodoh, G. W.
 5594 Bodor, N.
 7322 Bodor, N.
 9100 Bodunkova, L. E.
 2606 Bodyfelt, F. W.
 2241 Boeck, L. D.
 10388 Boeck, L. D.
 8177 Boeckman, R. K.
 4029 Boekhout, M.
 9902 Boelema, B. H.
 675 Boelhouwer, C.
 10515 Boender, R. J.
 9220 Boer, C.
 4366 Boerema, G. H.
 10638 Boerjan, M. L.
 2778 Boerma, H. R.
 1006 Boesewinkel, H. J.
 2664 Boesewinkel, H. J.
 2729 Boesewinkel, H. J.
 5949 Boethling, R. S.
 9101 Bogatskij, M. A.
 3865 Bogdanov, M. V.
 8119 Bogdanova, L. F.
 1209 Bogdanova, M. I.
 5586 Bogdanova, N. S.
 32 Bogdanova, T. I.
 8873 Bogdanova, T. L.
 2434 Bogdanovskaya, Zh. N.
 2246 Bogdanov, R.
 8421 Bogdanov, R.
 3045 Bogucka-Ledochowska, M.
 4406 Boguslavskaya, N. V.
 7930 Boguslavskaya, N. V.
 5506 Boguslawski, E. v.
 1125 Bohaychuk, W. P.
 7161 Boher, B.
 8221 Bohm, M. L.
 2940 Bohni, E.
 902 Bohonos, N.
 802 Boing, J. T. P.
 8967 Boisvert, H.
 8850 Boisvert, J.
 3043 Bojarska-Dahlig, H.
 3044 Bojarska-Dahlig, H.
 5687 Bojarska-Dahlig, H.
 8505 Bojarski, J.
 9808 Bojnansky, V.
 7682 Bok, S. H.
 5548 Bokadia, M. M.
 2295 Bokil, S. D.
 942 Boldog-Gyori, A.
 1405 Bolduc, C.
 4607 Bole, J. B.
 8122 Boles Bryan, D.
 1859 Bolkan, H. A.
 2033 Bolkan, H. A.
 2772 Bolkan, H. A.
 4526 Bolkan, H. A.
 9891 Boll, R. K.
 3305 Bollag, J. M.
 7278 Bollag, J. M.
 8035 Bollag, J. M.
 6326 Bollen, G. J.
 7165 Bollen, W. B.
 2179 Bollet, C.
 2329 Bollykyr, J.
 9198 Bollykyr, L. J.
 3171 Bolow, P.
 3739 Boltasu, G.
 4626 Bolton, A. T.
 8694 Bolton, A. T.
 2288 Bolton, N. E.
 8096 Bolzonio, G.
 3676 Boman, H. G.
 3167 Boman, M. R.
 3156 Boman, M. T.
 8104 Boman, M. T.
 8312 Boman, M. T.
 8516 Boman, M. T.
 7040 Bombeke, A.
 7822 Bomme, A. B.
 5488 Bonartseva, G. A.
 7583 Bonatelli, R. Jr.
 1574 Bonczyk, L. H.
 2099 Bond, J. H.
 6671 Bond, W. W.
 8385 Bondarchuk, A. A.
 667 Bonde, G.
 5846 Bonhomme, P.
 6476 Bonin, I.
 10414 Bonin, O.
 10443 Bonischova-Franklova, S.
 1703 Bonish, P.
 2091 Bonn, W. G.
 4927 Bonnova, E.
 8763 Boomstra, A. G.
 8764 Boomstra, A. G.
 9078 Boon, B.
 10027 Boone, R. S.
 5033 Boos, W.
 8219 Booth, A. C.
 6821 Booth, B. R.
 1870 Boothroyd, C. W.
 4130 Borch, G.
 9468 Borch, G.
 3827 Bordasius, R.
 10064 Bordeleau, L. M.
 5629 Borderon, E.
 5629 Borderon, J. C.
 10311 Borders, D. B.
 10344 Borders, D. B.
 3829 Bordesius, R.
 2963 Boreko, E. I.
 4680 Boreko, E. I.
 6513 Borgers, M.
 2779 Borges, O. L.
 2780 Borges, O. L.
 2431 Borisenko, V. V.
 2155 Borisova, T. G.
 9111 Borisova, T. G.
 9504 Borkmann, K.
 7467 Borner, B. J.
 5826 Borodina, V. M.
 3995 Borovian, G. E.
 3394 Borowiak, M.
 3406 Borowiak, M.
 3045 Borowski, E.
 3816 Borowski, E.
 4638 Borowski, J.
 6558 Borowski, J.
 4913 Borshchenko, V. V.
 8149 Borstad, B.
 6748 Borwanker, J. D.
 3717 Borysiewicz, J.

Author index

- 2395 Borzani, W.
5165 Borzani, W.
10622 Borzani, W.
761 Bos, L.
4413 Bos, L.
6177 Bos, L.
5658 Bose, A. K.
1729 Bose, A. N.
4244 Bose, A. N.
4245 Bose, A. N.
8880 Bose, S. K.
8924 Bose, S. K.
5098 Bose, S. M.
8748 Bosen, P. S.
10539 Boshard, R.
9924 Boskovic, M.
10250 Bosso, A. K.
6910 Bosron, W. F.
1722 Bossuyt, R.
2964 Bost, P.
9047 Bost, P. E.
4646 Boswell, P. A.
1804 Bothast, R. J.
2623 Bothast, R. J.
2769 Bothast, R. J.
9786 Bothast, R. J.
9523 Bott, T. L.
7841 Bottalico, A.
9714 Bottalico, A.
9723 Bottalico, A.
9790 Bottalico, A.
160 Bottazzi, V.
927 Bottazzi, V.
1562 Bottenbley, C. J.
8128 Bottenbley, C. J.
33 Bottex, C.
490 Ecuanchaud, D. H.
3672 Ecuanchaud, D. H.
10234 Bouchard, J. L.
6111 Boucque, C. V.
7959 Boudet, A. M.
7743 Boudier, J. F.
5971 Boudrant, J.
2631 Bouhet, J. C.
6418 Bouhot, D.
9171 Bouisicaux, A.
10252 Boulton, M. G.
2891 Bouniols, A.
3720 Bourdreauc, G. J.
10042 Boureau, M.
1753 Bourges, H.
10177 Bourgois, J. J.
10516 Bourne, J. R.
724 Bourquin, A. W.
4624 Bourquin, A. W.
6413 Bourquin, A. W.
10072 Bourquin, A. W.
6678 Bousfield, S.
3491 Bousquet, J. F.
7072 Bousquet, J. F.
1631 Bousquet, J. F.
7819 Boutibbones, P.
9700 Boutibbones, P.
2893 Bouton, J. H.
4260 Boutrif, E.
9709 Boutrif, E.
2302 Bouwer, H.
3106 Bouwer, H.
3494 Bouwer, J. M.
9830 Bouwer, J. M.
9886 Bouvey, R.
9263 Bowden, W. B.
3625 Bowen, G. D.
5470 Bowen, G. D.
7976 Bowen, H.
285 Bowen, R.
10601 Bowen, W. H.
7763 Bowers, J. A.
5463 Bowersox, T. W.
3318 Bowien, B.
1593 Bowman, P. L.
7362 Bowman, W. D.
3459 Bowner, R.
7404 Boyd, D. B.
5144 Boyd, D. R.
4214 Boyd, N. S.
486 Boyer, J. M.
10548 Boyer, J. M.
1544 Boykin, E. H.
1782 Boylan, S. L.
9255 Boyle, A. T.
4862 Boyle, W. C.
2294 Boyle, W. H.
4970 Bozdech, V.
9218 Brabbins, K. A.
2338 Bracchi, U.
3133 Bracchi, U.
4878 Bracchi, U.
4879 Bracchi, U.
466 Bracilovic, D. M.
9545 Bracquart, P.
10577 Bradbury, J. M.
4156 Bradee, L. M.
8903 Bradford, A. M.
3326 Bradley, D. G.
9983 Bradley, D. G.
7475 Bradley, R. M.
4648 Bradley, S. G.
7681 Bradley, S. G.
4925 Brady, J.
2283 Brady, M. I.
2284 Brady, M. I.
5046 Bragg, P. D.
1294 Braginskaya, P. S.
4769 Braginskaya, P. S.
10287 Braginskaya, P. S.
3410 Brains, C.
5819 Brains, K. R.
5316 Brakke, M. K.
6646 Brambilla, R.
902 Bramhall, R.
9773 Branas, M.
9933 Branas, M.
4895 Brand, L.
6474 Brandberg, A.
10600 Brandberg, A.
7447 Brandis, M.
225 Brandl, E.
3104 Brandon, J. R.
7483 Brandon, J. R.
3779 Brandt, A.
3780 Brandt, A.
4831 Brandt, W. E.
6267 Branisova, H.
2377 Branson, D.
7762 Brant, P. C.
5326 Brar, H. S.
2684 Brasier, C. M.
6395 Brasier, C. M.
1582 Brathall, D.
4677 Braude, I. A.
9871 Braun, A. J.
2847 Braun, H. J.
6472 Braun, R.
7295 Braun, V.
2384 Braunstein, H.
2392 Braunstein, H.
3920 Brauss, F. W.
1845 Braverman, S. W.
2775 Braverman, S. W.
6189 Braverman, S. W.
8705 Braverman, S. W.
9853 Braverman, S. W.
10031 Bravery, A. F.
5179 Bravo Abad, F.
4903 Brayer, L.
7419 Brazas, M.
6324 Brazda, G.
2256 Brazhnikova, M. G.
135 Brazis, A. R.
8477 Brazis, A. R. (Contd)
2657 Brckay, J.
5121 Breary, D. R.
7935 Breazeale, V.
1750 Brechbill, D. O.
8474 Brechbuhler, J. D.
8450 Brechot, P.
1601 Bredt, W.
6801 Bredt, W.
8477 Bredvold, E.
2557 Breen, S. I.
172 Breer, C.
173 Breer, C.
241 Brekke, O. L.
9704 Brekke, O. L.
6995 Bremel, R. D.
586 Bremner, D. H.
2192 Bremner, D. H.
3013 Bremner, D. H.
8890 Bremner, J. M.
4491 Brendler, R. A.
6003 Brennan, P. J.
7176 Brenner, D.
2550 Brent, M. M.
7749 Breseman, A. P.
7752 Breseman, A. P.
10637 Bresler, S. E.
4073 Breuil, C.
7785 Breunig, H. L.
2782 Brewbaker, J. L.
5328 Brewbaker, J. L.
8082 Brewer, D.
8287 Brewer, D. G.
350 Brewer, J.
2331 Brewer, W. S.
8909 Brewster, V.
482 Brezhnev, I. V.
4548 Bricker, J. L.
6924 Bridgeland, E. S.
8945 Bridges, K.
2185 Briedis, D. J.
3772 Brier, G. L.
8129 Brier, G. L.
10087 Brierley, C. L.
4449 Briggles, L. W.
7978 Briggs, J. B.
941 Brighigna, A.
4815 Brik, H.
1305 Brikman, D. I.
1172 Brill, W. J.
4585 Brill, W. J.
7253 Brill, W. J.
5921 Brillouet, J. M.
7611 Brillouet, J. M.
6604 Brinberg, S. L.
9682 Bringewatt, W.
7480 Bringmann, G.
6261 Brinkerhoff, L. A.
7199 Brinkman, M. A.
459 Brisbane, P. G.
451 Briskovich, M. A.
6035 Brisson, G. J.
6303 Brisson, J. D.
4132 Britton, G.
7679 Britton, G.
5092 Broad, T. E.
7442 Broadbent, D.
2761 Broadbent, L.
10301 Broccall, G.
3311 Brock, C. J.
4029 Brock, M.
5397 Brock, P. D.
2901 Brock, T. D.
6765 Brock, T. D.
9177 Brockett, O. D.
4925 Brockett, R. M.
2858 Brockman, E. R.
6445 Brockwell, F.
2082 Brockwell, J.
2884 Brockwell, J.

Author index

- 5492 Brockwell, J. (Contd)
5493 Brockwell, J.
8029 Brockwell, J.
855 Brodelius, P.
2464 Brodie, J. Y.
4449 Brodny, U.
9027 Brodowicz, M.
1090 Brodrick, H. T.
1971 Brodrick, H. T.
4442 Brodrick, H. T.
5582 Brodskaya, L. M.
9219 Brodtman, N. V.
7481 Broecker, B.
8013 Broese van Groenou, H.
4939 Brogan, O.
2236 Brogden, R. N.
10301 Broggi, R.
4329 Brokenshire, T.
7042 Bromel, M. C.
6201 Bromfield, K. R.
10177 Bronchart, R.
60 Bronfenbrener, M. I.
9936 Bronnimann, A.
4385 Bronskill, J. F.
4012 Bronson, D. L.
4036 Brooke, P. K.
1735 Brooker, B. E.
3735 Brookey, E. A. Jr.
8075 Brookman, S.
4076 Brooks, C. J. W.
10412 Brosio, E.
9476 Brosseau, J. D.
8154 Broter, L.
4668 Brotherton, J.
558 Brotherton, T.
3197 Brotzman, H. G.
1297 Broughall, J. M.
2274 Broughton, A.
4588 Broughton, W. J.
9811 Browder, L. E.
632 Brown, A. G.
3347 Brown, A. G.
3598 Brown, A. G. P.
5692 Brown, d. A.
9103 Brown, D. A.
10323 Brown, D. A.
4285 Brown, D. F.
489 Brown, D. F. J.
9233 Brown, D. G.
8576 Brown, D. R.
5401 Brown, G. E.
7193 Brown, G. E.
8479 Brown, J.
4952 Brown, J. A.
6752 Brown, J. F.
9813 Brown, J. F.
9896 Brown, J. F.
10213 Brown, J. F. C.
4906 Brown, J. Jr.
4382 Brown, J. S.
4937 Brown, K. J.
2186 Brown, K. N.
9755 Brown, L.
86 Brown, L. R.
114 Brown, L. R.
691 Brown, L. R.
723 Brown, L. R.
4622 Brown, L. R.
4885 Brown, L. R.
10110 Brown, L. R.
3197 Brown, M. F.
4307 Brown, N. J.
9408 Brown, O. R.
6981 Brown, P. J.
1542 Brown, R.
8364 Brown, R. D. Jr.
5986 Brown, R. G.
7238 Brown, R. M.
6089 Brown, T.
8306 Brown, W. C.
8548 Brown, W. D.
7441 Brown, W. E.
8116 Brown, W. J.
4196 Brown, W. V.
4667 Browne, M. K.
9306 Brownell, G. H.
115 Brownlee, N. G.
5811 Brozer, E.
1591 Bruce, V. R.
9595 Bruce, V. R.
9596 Bruce, V. R.
548 Bruch, C. W.
4701 Bruch, M. K.
6337 Bruchi, G. W.
8396 Bruckler, J.
8388 Bruckner, B.
9014 Bruckner, N. I.
3632 Bruehl, G. W.
9764 Bruening, G.
10636 Brugh, M. Jr.
9898 Bruin, G. C. A.
5091 Brukner, B.
5874 Brumfitt, W.
7309 Brumfitt, W.
6420 Brun, H.
3705 Brunar, L.
6400 Brunegger, A.
8358 Brunet, G.
9523 Brunker, R.
2956 Brunker, R. L.
9423 Brunngraber, E. F.
5840 Bruno Fortes, Z.
609 Bruns, B. P.
675 Brunsman, J. J.
2442 Bruschi, M.
2443 Bruschi, M.
3243 Bruschi, M.
3244 Bruschi, M.
6945 Bruschi, M.
8331 Bruschi, M.
2963 Bruskova, I. V.
410 Brussel, H.
604 Bruun, B.
8269 Bryan, B. A.
3752 Bryan, C. S.
8465 Bryan, F. L.
5537 Bryan, L. E.
10257 Bryan, L. E.
6459 Bryant, M. P.
8271 Bryant, M. P.
9204 Bryant, M. P.
10270 Bryant, R. E.
10468 Bryers, J. D.
10469 Bryers, J. D.
5584 Bryson, Y. J.
1381 Bryzgalova, T. E.
3267 Brzezinski, R.
6086 Bubucis, P. M.
4685 Bucchini, D.
10119 Bucci, M.
4631 Bucci, R.
1205 Buchanan, C. E.
9957 Buchanan, G. A.
227 Buchanan, J. R.
10566 Buchanan, J. W.
3373 Buchanan, R. L.
9777 Buchannon, K. W.
378 Buchenauer, H.
385 Buchenauer, H.
233 Buchi, G.
7076 Buchi, G.
7832 Buchi, G.
10539 Buck, G. E.
6086 Buck, J. D.
1327 Buck, R. E.
5651 Buck, R. E.
6819 Bucke, C.
10097 Buckee, J. C.
4216 Buckle, K. A.
2303 Buckles, J. D.
7769 Buckley, D. J.
1186 Buckley, E. N.
2580 Buckley, J.
8212 Buckley, T. F.
9141 Buckmire, F. L. A.
8139 Bucourt, R.
2803 Buczacki, S. T.
2804 Buczacki, S. T.
5424 Buczacki, S. T.
6358 Buczacki, S. T.
6476 Buczowski, Z.
4745 Budayova, E.
3166 Buddemeyer, E.
4033 Budesinsky, M.
7133 Budhraj, T. R.
9165 Buell, D. J.
9051 Buettner, K. R.
3978 Buffenmyer, C. L.
4892 Euford, L. E.
5341 Bugaets, T. G.
9015 Bugatsky, L. P.
3544 Bugbee, W. M.
6090 Buhagiar, R. W. M.
5161 Buhler, H.
3851 Buhr, H. O.
7470 Buhr, H. O.
3874 Buim, I.
5547 Bukharin, O. V.
57 Buki, K. G.
5126 Bulant, V.
9144 Bulgakova, V. G.
10391 Bulgakova, V. G.
4600 Bull, A. T.
9246 Bull, A. T.
9416 Bull, A. T.
7079 Bulla, L. A. Jr.
7080 Bulla, L. A. Jr.
1821 Bullerman, L. B.
10142 Bullerman, L. B.
8948 Bulling, E.
9575 Bullock, D. H.
10494 Bulow, B.
5232 Bunch, W. L.
2583 Buncic, S.
6580 Bundgaard, H.
9080 Bundgaard, H.
9081 Bundgaard, H.
9460 Bunge, R. H.
5185 Bunnell, F. L.
5186 Bunnell, F. L.
9627 Bunyan, J.
9628 Bunyan, J.
9042 Buogo, A.
2451 Buonocore, V.
485 Burakova, A. J.
5060 Burchall, J. J.
7900 Burchill, R. T.
1572 Burdard, N. M.
8620 Burdon, J. J.
9514 Buret, M.
9480 Burge, K. A.
7483 Burge, W. D.
9196 Burge, W. D.
24 Burgen, S. V.
9556 Burgener, D. M.
4030 Burger, G.
6966 Burgermeister, T.
3155 Burgers, A.
9898 Burgers, A. C.
3442 Burgess, H. D.
7584 Burgess, L. W.
8882 Burgess, L. W.
9641 Burgess, P. L.
1675 Burgess, R. R.
1676 Burgess, R. R.
211 Burgos, J.
9572 Burgos, J.
1816 Burgoyne, R. D.
5282 Burgoyne, R. D.
4705 Burian, V.

Author index

4724 Burian, V. (Contd)
 7827 Burke, L. T.
 8604 Burke, D. W.
 6883 Burke, W. F. Jr.
 6865 Burkom, M.
 0478 Burman, N. P.
 7837 Burmeister, H. R.
 6808 Burnett, J. H.
 3488 Burns, E. E.
 7033 Burns, J. M.
 797 Burns, R. C.
 10043 Burns, R. G.
 3557 Burnside, J. A.
 5004 Burrell, D. C.
 3245 Burris, R. H.
 3296 Burris, R. H.
 4597 Burris, R. H.
 4967 Burris, R. H.
 7829 Burroughs, L. F.
 7321 Burrous, S. E.
 1200 Burt, S. J.
 8533 Burton, H.
 9654 Burton, H.
 9655 Burton, H.
 9656 Burton, H.
 5985 Burton, K. A.
 1097 Burton, V. E.
 4013 Burtonboy, G.
 8449 Buryan, N. I.
 3010 Busch, D. F.
 6303 Busch, L.
 5778 Bush, A. W.
 10153 Bush, J. H.
 1673 Bush, R. S.
 6441 Bushby, H. V. A.
 10061 Bushby, H. V. A.
 10062 Bushby, H. V. A.
 787 Bushnell, W. R.
 1863 Bushnell, W. R.
 5675 Busko-Oszczapowicz, I.
 8064 Buss, R. F.
 3384 Busse, M.
 601 Busson, R.
 608 Busson, R.
 1191 Busta, F. F.
 7145 Butani, D. K.
 5020 Buten, A.
 1139 Butin, H.
 8885 Butler, E. E.
 459 Butler, J. H. A.
 3261 Butler, L. G.
 8229 Butler, M.
 7377 Butler, T.
 2217 Butnariu-Moldovan, O.
 4785 Butterfield, A. G.
 3347 Butterworth, D.
 4944 Button, D. K.
 8514 Buxton, J. D.
 2280 Buynak, E. B.
 5913 Buysman, P. J.
 6111 Buysse, F. X.
 1861 Buzzell, R. I.
 3807 Bycroft, B. W.
 6174 Byers, R. A.
 5390 Byford, W. J.
 7977 Byford, W. J.
 8839 Byford, W. J.
 9350 Eyalaj, T. Y.
 4636 Bykov, V. A.
 6698 Bylin, R. S.
 619 Bylinkina, E. S.
 4781 Bylinkina, E. S.
 8131 Bylinkina, E. S.
 5590 Byrd, D. M.
 2059 Byrd, D. W. Jr.
 2790 Byrd, R. J.
 6598 Byrne, K. M.
 639 Bystrov, N. S.
 3069 Bystrov, V. F.
 7848 Bzdegaj, J.
 7773 Cabassi, E.
 5081 Cabezas De Herrera, E.
 4218 Cabrera, E.
 10131 Cacciatori, R.
 6494 Cachi, J. C.
 2803 Cadd, S. E.
 2804 Cadd, S. E.
 1914 Cadilhac, B.
 6248 Cadilhac, B.
 6316 Cadilhac, B.
 7360 Cadmus, M.
 2517 Cadmus, M. C.
 5985 Cadmus, M. C.
 9594 Cady, P.
 6963 Cagnoli-Bellavita, N.
 9485 Cagnoli-Bellavita, N.
 5402 Cahagnier, B.
 7014 Cahil, V. R.
 6080 Cahill, V. R.
 656 Caisey, P.
 3760 Cajkovski, C.
 3794 Cajkovski, C.
 5164 Calam, C. T.
 8663 Calavan, E. C.
 9831 Calavan, E. C.
 3517 Calavan, E. S.
 1530 Calcinardi, C.
 9636 Calder, F. W.
 9647 Calder, F. W.
 479 Calder, J. A.
 8047 Calder, J. A.
 7478 Calderone, S. H.
 5920 Caldwell, K. D.
 177 Calhoun, M. C.
 6556 Calia, F. M.
 2303 Calkins, J.
 6155 Callahan, L. T.
 5861 Calleja, G. B.
 1941 Callihan, R. H.
 7290 Calomiris, J. J.
 10109 Calomiris, J. J.
 10111 Calomiris, J. J.
 8654 Calpouzos, L.
 357 Calvert, O. H.
 7065 Camarda, L.
 7826 Camarda, L.
 5903 Camargo-Rubio, E.
 5904 Camargo-Rubio, E.
 3782 Camba, S. A. C.
 7451 Cameron, A. F.
 439 Cameron, D. R.
 440 Cameron, D. R.
 4363 Cameron, H. R.
 4841 Cameron, J.
 7847 Cameron, J.
 2442 Cammack, R.
 6848 Cammack, R.
 328 Cammack, R. H.
 6108 Cammell, S. B.
 7281 Campacci, E. F.
 10014 Campana, R. J.
 9709 Campbell, A. D.
 10037 Campbell, C. A.
 1954 Campbell, C. L.
 7969 Campbell, C. L.
 9895 Campbell, C. L.
 10184 Campbell, D. E.
 811 Campbell, I. M.
 136 Campbell, J. E.
 4625 Campbell, J. E.
 3537 Campbell, J. M.
 2488 Campbell, L. L.
 9204 Campbell, L. L.
 4883 Campbell, L. M.
 586 Campbell, M. M.
 2192 Campbell, M. M.
 3013 Campbell, M. M.
 5144 Campbell, R. M.
 2746 Campbell, R. N.
 7927 Campbell, R. N.
 8860 Campbell, R. N. (Contd)
 1842 Campos, J.
 6698 Campuzino, C. M.
 755 Canale, R. P.
 3967 Canale, R. P.
 7388 Candler, E. R.
 10132 Candler, E. R.
 10133 Candler, E. R.
 8531 Canetti, M.
 7921 Cannizzaro, G.
 2939 Cannon, R. W.
 4635 Cantet, M. P.
 6029 Canton, C.
 909 Cantonio, C.
 933 Cantonio, C.
 1530 Cantonio, C.
 2585 Cantonio, C.
 3405 Cantonio, C.
 5199 Cantonio, C.
 5255 Cantonio, C.
 2980 Cantwell, G. E.
 3738 Cantwell, G. E.
 3652 Canzo, A.
 6550 Caorsi, B.
 8974 Capdepuy, M.
 3702 Capek, A.
 3705 Capek, A.
 5571 Capek, A.
 4275 Capel, B. J.
 7508 Caplin, H.
 490 Capmau, M. L.
 10125 Capmau, M. L.
 2451 Caporale, C.
 2764 Cappellini, R. A.
 5398 Cappellini, R. A.
 247 Capra, J. D.
 8428 Caputo, O.
 5603 Caras, M.
 6938 Caras, M. A.
 7959 Carasco, C.
 2989 Carbonnelle, B.
 10456 Carden, R. R. Jr.
 1914 Cardin, L.
 7933 Cardin, L.
 10031 Carey, J. K.
 6965 Carilli, A.
 3024 Carlone, N. A.
 3025 Carlone, N. A.
 6854 Carlson, C. A.
 946 Carlson, C. W.
 10451 Carlson, D. A.
 3546 Carlson, G. A.
 7301 Carlson, H. C.
 1500 Carlson, S.
 229 Carlton, W. W.
 2370 Carmen Martinez Medina, M.
 5453 Carmichael, J. W.
 6827 Carnat, A. P.
 8152 Carney, C. F.
 8097 Carniti, G.
 7806 Carosella, J. M.
 5859 Caroselli, N. E.
 4274 Carpenter, D. F.
 8547 Carpenter, J. A.
 2612 Carpenter, L.
 177 Carpenter, Z. L.
 1790 Carpenter, Z. L.
 1791 Carpenter, Z. L.
 2614 Carpenter, Z. L.
 6127 Carpenter, Z. L.
 7803 Carpenter, Z. L.
 7804 Carpenter, Z. L.
 8544 Carpenter, Z. L.
 9540 Carpenter, Z. L.
 9765 Carpenter, Z. L.
 10301 Carpi, C.
 7949 Carr, A. J. H.
 6975 Carr, J. G.
 10646 Carr, J. G.
 4070 Carr, R. J. G.

Author index

- 5561 Carreira, J.
 6867 Carroad, P. A.
 7585 Carroad, P. A.
 7995 Carroll, G. C.
 4539 Carroll, R. B.
 6175 Carroll, R. B.
 10304 Carroll, R. D.
 1862 Carroll, T. W.
 2688 Carroll, T. W.
 4321 Carroll, T. W.
 4348 Carroll, T. W.
 1588 Carruthers, M. M.
 9527 Carsel, R. F.
 1839 Carselli, N. E.
 5690 Carson, M.
 9805 Carteer, R. L.
 420 Carter, F. L.
 6368 Carter, G. A.
 8824 Carter, G. A.
 9033 Carter, G. C.
 3747 Carter, G. R.
 7866 Carter, M. V.
 7983 Carter, M. V.
 3715 Carter, W. A.
 10265 Carter, W. A.
 8118 Carteron, B.
 8785 Cartwright, D.
 5396 Cartwright, J.
 7949 Carver, T. L. W.
 9282 Cary, S. G.
 5904 Casarrubias-Arcos, E.
 10535 Casey, M.
 877 Casey, M. L.
 5472 Casida, L. E. Jr.
 7682 Casida, L. E. Jr.
 8866 Casida, L. E. Jr.
 10481 Casman, E. A.
 6678 Cason, C. E.
 6261 Cason, E. T. Jr.
 7110 Caspary, W.
 5096 Cassani, G.
 3031 Cassarino, G.
 7939 Cassells, A. C.
 7940 Cassells, A. C.
 2259 Cassidy, P. I.
 9273 Cassone, A.
 1739 Castanon, M. J.
 5221 Castberg, H. B.
 6708 Castleignau, G.
 9631 Castell, A. G.
 6550 Castillo, M.
 275 Castor, L. L.
 5327 Castor, L. L.
 6927 Castrius, P. A.
 5325 Castor, L. L.
 9637 Caswell, L. F.
 1767 Catalano, A.
 5840 Catelli de Carvalho, H.
 6210 Catherall, P. L.
 9800 Catherall, P. L.
 251 Cation, D.
 3636 Catska, V.
 933 Cattaneo, P.
 2585 Cattaneo, P.
 6029 Cattaneo, P.
 5062 Catterall, J. F.
 2179 Caude, M.
 5408 Caudeiron, Y.
 4876 Cauhape, N.
 7953 Cauquil, J.
 9938 Cauquil, J.
 3966 Causey, W. A.
 8097 Cavalleri, B.
 3030 Cavallo, G.
 6632 Cavad, D.
 5564 Cavazzini, G.
 5565 Cavazzini, G.
 4665 Cavier, R.
 6496 Cavill, R. H.
 3094 Cazzola, G.
 2459 Cazzulo, J. J.
 3262 Cazzulo, J. J.
 4987 Cecal, A. L.
 6963 Ceccherelli, P.
 9485 Ceccherelli, P.
 6267 Cech, M.
 9511 Cejka, P.
 9518 Cejkova, R.
 4762 Celada, F.
 5293 Celino, M. S.
 10018 Cellerino, G. P.
 9537 Celso de Castro, L.
 7482 Cenci, G.
 2764 Ceponis, M. J.
 5398 Ceponis, M. J.
 10212 Cerf, O.
 829 Cerimela, B.
 7696 Cerna, I.
 9158 Cerna, J.
 9544 Cerna, J.
 8472 Cerna, M.
 4619 Cerniglia, C. E.
 3421 Cerny, G.
 6545 Ceruti Scurtia, J.
 6872 Cervone, F.
 9428 Cervone, F.
 5579 Cesario, T. C.
 5562 Chaban, J.
 3672 Chabbert, Y. A.
 7849 Chaby, R.
 8577 Chaby, R.
 2345 Chackett, K. F.
 5446 Chacko, R. J.
 2127 Chadha, K. C.
 2344 Chadwick, P.
 10393 Chadwick, P.
 3435 Chagn, F. C.
 946 Chah, C. C.
 2781 Chahal, A. S.
 1760 Chahal, D. S.
 5089 Chahal, D. S.
 5970 Chahal, D. S.
 6840 Chahal, D. S.
 9347 Chahal, D. S.
 2784 Chahal, S. S.
 4304 Chahal, S. S.
 7274 Chahal, V. P. S.
 3485 Chahl, S. S.
 862 Chaikovskaya, S. M.
 875 Chaikovskaya, S. M.
 1294 Chaikovskaya, S. M.
 5224 Chaikovskaya, S. M.
 6602 Chaikovskaya, S. M.
 10287 Chaikovskaya, S. M.
 5330 Chaimongkol, U.
 7446 Chain, E. B.
 10438 Chain, E. S. K.
 7444 Chain, S. B.
 5409 Chakrabarti, A. K.
 7839 Chakrabarti, D. K.
 7992 Chakrabarti, D. K.
 7187 Chakrabarti, N.
 7972 Chakrabarti, N. K.
 7426 Chakrabarti, S.
 9113 Chakrabarti, S.
 2100 Chakrabarty, A.
 5528 Chakrabarty, A. M.
 2100 Chakrabarty, A. N.
 2938 Chakrabarty, A. N.
 8951 Chakrabarty, A. N.
 381 Chakravarti, B. P.
 1004 Chakravarti, B. P.
 8793 Chakravarti, B. P.
 8794 Chakravarti, B. P.
 7129 Chakravarty, D. K.
 9956 Chakravarty, D. K.
 6941 Chakravorty, B.
 7716 Chalapati Rao, V.
 7966 Chalfant, R. B.
 9969 Chalfant, R. B.
 4716 Chalgren, S.
 8825 Chalkley, J. H.
 4036 Challand, S. R.
 8667 Challen, D. I.
 7902 Challen, D. K.
 6917 Chaloupka, J.
 6286 Chalova, L. I.
 2964 Chamberaud, S.
 6210 Chamberlain, J. A.
 9800 Chamberlain, J. A.
 8005 Chamberland, H.
 9115 Chamberlin, J. W.
 1750 Chambers, J. V.
 7142 Chambers, S. C.
 7282 Chambers, S. C.
 665 Chambon, L.
 9514 Chambroy, Y.
 7603 Champion, P. M.
 451 Chan, C. K. Y.
 6737 Chanal, M.
 4463 Chand, J. N.
 164 Chandler, R. A.
 301 Chandler, W. A.
 3497 Chandler, W. A.
 3409 Chandra, A.
 5236 Chandra, A.
 9601 Chandra, A.
 7426 Chandra, A. L.
 9113 Chandra, A. L.
 1958 Chandra, K. J.
 3590 Chandra, S.
 9915 Chandra, S.
 1013 Chandraseknaram, V.
 1851 Chandraseknaram, V.
 2240 Chaney, M.
 628 Chaney, M. O.
 4605 Chaney, R. L.
 286 Chang, H.
 7131 Chang, H.
 6258 Chang, H. S.
 6865 Chang, L. C.
 6913 Chang, S.
 3747 Chang, W. H.
 196 Chang, W. T. H.
 3181 Chang, Y. T.
 6019 Channa Reddy, C.
 1023 Channamma, K. A. L.
 8804 Channon, A. G.
 662 Chanock, R. M.
 3822 Chanock, R. M.
 7885 Chao, C. C.
 4663 Chao, L.
 6503 Chao, L. Y.
 3699 Chapin, S. E.
 6221 Chapman, A. L.
 7308 Chapman, D. B.
 7508 Chapman, D. C.
 1332 Chapman, D. G.
 1738 Chapman, H. R.
 5225 Chapman, H. R.
 6062 Chapman, H. R.
 1274 Chapman, P. A.
 9484 Chapman, R. L.
 5841 Chappel, R. J.
 611 Chappell, W. A.
 117 Characklis, W. G.
 717 Characklis, W. G.
 3848 Characklis, W. G.
 10468 Characklis, W. G.
 10469 Characklis, W. G.
 490 Chardon, H.
 4644 Chardon, H.
 9423 Charga, F. E.
 4968 Charles, B. G.
 10160 Charles, B. G.
 3354 Charles, M.
 43 Charpentier, M. J.
 9525 Charpentier, M.
 10460 Charrier, F.
 3491 Chartier, P.

Author index

- 8148 Chase, H. A.
- 1683 Chassy, B. M.
- 3997 Chastel, C.
- 9084 Chastikova, A. V.
- 5552 Chastrette, M.
- 346 Chatrath, M. S.
- 2006 Chatrath, M. S.
- 2012 Chatrath, M. S.
- 3053 Chatten, L. G.
- 8064 Chatterjee, A. K.
- 4388 Chatterjee, C.
- 6831 Chatterjee, S.
- 7135 Chatterjee, S. C.
- 3048 Chatterjee, S. N.
- 2386 Chattopadhyay, B.
- 8880 Chattopadhyay, J. P.
- 3495 Chattopadhyay, N. C.
- 4347 Chattopadhyay, N. C.
- 7187 Chattopadhyay, N. C.
- 8790 Chattopadhyay, N. C.
- 5888 Chattopadhyay, P. K.
- 1034 Chattopadhyay, S. B.
- 8883 Chattopadhyay, S. B.
- 10148 Chaturvedi, K. K.
- 1252 Chaturvedi, U. C.
- 8180 Chau, H. T.
- 3193 Chau, P. Y.
- 8260 Chau, P. Y.
- 3658 Chau, Y. K.
- 493 Chaudhari, D. T.
- 2106 Chaudhari, D. T.
- 7839 Chaudhary, K. C. B.
- 2867 Chaudhry, P. N.
- 4244 Chaudhuri, D. R.
- 4245 Chaudhuri, D. R.
- 3657 Chaudhuri, K. L.
- 8147 Chaudhuri, K. L.
- 6219 Chaudhuri, S.
- 5020 Chaudhury, N.
- 2759 Chauhan, R. K. S.
- 6431 Chauhan, R. K. S.
- 7115 Chauhan, R. K. S.
- 5440 Chauhan, M. S.
- 6613 Chauncey, D. M.
- 1566 Chaus, V. I.
- 2662 Chavan, P. B.
- 7833 Chavant, L.
- 1879 Chaudhury, A. K.
- 8391 Chaydhuri, K. L.
- 1947 Chee, K. H.
- 1948 Chee, K. H.
- 4414 Chee, K. H.
- 4054 Cheeke, P. R.
- 5354 Cheema, S. S.
- 5971 Chettel, C.
- 8668 Chellen, D. I.
- 5597 Chelsheva, G. M.
- 4581 Chen, A. -P. T.
- 5901 Chen, B. J.
- 7530 Chen, B. J.
- 9250 Chen, B. J.
- 9931 Chen, C. -C.
- 3789 Chen, C. -W.
- 6258 Chen, C. T.
- 6017 Chen, E. C. -H.
- 221 Chen, J. K.
- 6469 Chen, K. -C.
- 6899 Chen, L. F.
- 366 Chen, M.
- 7903 Chen, M. -h.
- 9115 Chen, S.
- 2419 Chen, S. L.
- 1928 Chen, T. A.
- 10591 Chen, T. A.
- 1746 Chen, T. C.
- 6800 Chen, T. R.
- 5644 Chen, W. C.
- 3603 Chen, Z. -C.
- 5988 Chen-Schmeisser, U.
- 10076 Chendrayan, K.
- 7751 Cheng, C. T.
- 8666 Cheng, D. W.
- 5986 Cheng, K. -J.
- 366 Cheng, Y. H.
- 8703 Cheng, Y. H.
- 263 Chenulu, V. V.
- 1965 Chenulu, V. V.
- 5353 Chenulu, V. V.
- 5372 Chenulu, V. V.
- 5120 Cherches, B. Z.
- 2323 Cheremisnoff, P. N.
- 2324 Cheremisnoff, P. N.
- 4372 Cheremisnoff, P. N.
- 8023 Cherepkov, N. I.
- 6616 Cherkesov, A. I.
- 6685 Cherkinsky, S. N.
- 6962 Chermensky, D. N.
- 5974 Chernikevich, I. P.
- 9881 Chernikov, S. L.
- 9232 Chernjavskaya, L. N.
- 5524 Chernomordij, A. B.
- 639 Chernov, B. K.
- 4747 Cherny, N. E.
- 5619 Cherny, N. E.
- 5620 Cherny, N. E.
- 5975 Chernyak, V. Ya.
- 2512 Chernysh, G. P.
- 2595 Cherry, J. P.
- 3407 Cherry, J. P.
- 7659 Chertov, O. Yu.
- 639 Chervin, I. I.
- 5519 Chervin, I. I.
- 865 Chesne, S.
- 7015 Chesnut, C. M.
- 9022 Chesworth, K. A. C.
- 6763 Chet, L.
- 2643 Cheung, R.
- 5693 Cheung, R.
- 2179 Chevalier, G.
- 7011 Chew, V.
- 7837 Chi, M. S.
- 7838 Chi, M. S.
- 9016 Chi, W. H.
- 3096 Chian, E. S. K.
- 3097 Chian, E. S. K.
- 3236 Chian, E. S. K.
- 6143 Chiang, C. C.
- 6095 Chiang, L. C.
- 4461 Chiang, M. S.
- 7205 Chiarappa, L.
- 4183 Chiatante, D.
- 858 Chiba, H.
- 3 Chibata, I.
- 3231 Chibata, I.
- 3232 Chibata, I.
- 8321 Chibata, I.
- 9077 Chibata, I.
- 9364 Chibata, I.
- 6669 Chicherin, Y. V.
- 2545 Chicoye, E.
- 836 Chien, A.
- 5448 Chien, C. -Y.
- 8889 Chien, S. H.
- 5058 Chigaleichik, A. G.
- 8942 Chigaleichik, A. G.
- 9373 Chigaleichik, A. G.
- 4812 Chihara, S.
- 6606 Chihara, S.
- 2654 Chikishev, E. V.
- 8623 Chikoi, A. W.
- 2076 Child, J. J.
- 7271 Child, J. J.
- 723 Childers, G. W.
- 4885 Childers, G. W.
- 8620 Childers, G. A.
- 2712 Chinn, S. H. E.
- 2868 Chinn, S. H. F.
- 5420 Chinn, S. H. F.
- 4263 Chinnici, J. P.
- 7025 Chipley, J. R.
- 9692 Chipley, J. R. (Contd)
- 8830 Chipman, E. W.
- 4721 Chippaux-Hypolite, C.
- 9618 Chiratananon, R.
- 4123 Chirwa, A. S.
- 5066 Chisaki, C.
- 1327 Chisholm, D. R.
- 8281 Chitkara, Y. K.
- 8510 Chitu, M.
- 8511 Chitu, M.
- 7866 Chitzanidis, A.
- 9872 Chitzanidis, A.
- 6913 Chiu, K.
- 3202 Chiu, Y. S.
- 262 Chiykowski, L. N.
- 7910 Chiykowski, L. N.
- 845 Chiyonobu, T.
- 8316 Chmiel, A.
- 4989 Cho, B. R.
- 5529 Cho, D. T.
- 8613 Cho, E. K.
- 5377 Cho, J. J.
- 8822 Cho, J. J.
- 6892 Cho, Y. K.
- 7627 Cho, Y. K.
- 9892 Chod, J.
- 10528 Chogaleichik, A. G.
- 980 Chohan, J. S.
- 1017 Chohan, J. S.
- 1848 Chohan, J. S.
- 2680 Chohan, J. S.
- 3516 Chohan, J. S.
- 6102 Cholas, G.
- 4199 Chopin, A.
- 7736 Chopin, A.
- 7737 Chopin, A.
- 4199 Chopin, M. -C.
- 9473 Chopra, A. K.
- 1106 Chopra, B. L.
- 1964 Chopra, B. L.
- 2737 Chopra, B. L.
- 2927 Chopra, J. I.
- 1824 Chordash, R. A.
- 5471 Chormanova, N. T.
- 2469 Chou, C. C.
- 412 Chou, C. K. S.
- 8848 Chou, C. K. S.
- 5644 Chou, D. -L.
- 319 Chou, T.
- 1664 Choudary, V. P.
- 5409 Choudhury, B.
- 7375 Chow, A. W.
- 7660 Chow, C. T.
- 4538 Chowdhry, P. N.
- 2702 Chowdhury, A. K.
- 6941 Chowdhury, K.
- 212 Chowdhury, M. S. U.
- 8024 Chowdhry, S. P. R.
- 3591 Chowfla, S. C.
- 8996 Chowfla, S. C.
- 9230 Chretien, J.
- 5208 Chrisoper, G. L.
- 6998 Chrisoper, G. L.
- 6942 Christ, B. G.
- 923 Christ, W.
- 8494 Christ, W.
- 7714 Christian, J. n. B.
- 972 Christensen, C. M.
- 973 Christensen, C. M.
- 2620 Christensen, C. M.
- 7836 Christensen, C. M.
- 8220 Christensen, L. A.
- 2067 Christensen, M. J.
- 6048 Christensen, V. W.
- 6049 Christensen, V. W.
- 9678 Christiansen, G.
- 4392 Christier, P. G.
- 4392 Christier, S. R.
- 9840 Christis, R. G.
- 4664 Christoffersen, A. -B.

Author index

- 8512 Christopher, F.
- 10089 Christopher, R. K.
- 6143 Christophi, G. G.
- 3102 Christoulas, D. G.
- 9679 Chry, C. J. L.
- 325 Chrzanowska, M.
- 9449 Chu, C. K.
- 9016 Chu, C. Z.
- 3435 Chu, F. S.
- 7070 Chu, F. S.
- 7821 Chu, F. S.
- 1913 Chu, L.
- 9016 Chu, S.
- 1308 Chudner, V. Z.
- 2395 Chueiri, L. B.
- 9057 Chugasova, L. A.
- 1307 Chuichenko, S. S.
- 2999 Chuichenko, S. S.
- 9040 Chuichenko, S. S.
- 6919 Chulkova, I. F.
- 6166 Chumakov, A. E.
- 4829 Chumburidze, T. S.
- 138 Chumney, K. R.
- 5529 Chun, D.
- 4905 Chung Hong, H. S.
- 8613 Chung, B. J.
- 7857 Chung, D. W.
- 3169 Chung, K. T.
- 319 Chung, S.
- 6894 Chung, S. H.
- 5120 Chupova, L. A.
- 1131 Chwalinski, K.
- 1134 Chwalinski, K.
- 1142 Chwalinski, K.
- 3898 Chwekinsky, S. N.
- 3406 Chybowska, J.
- 3394 Chybowski, J.
- 947 Chylinski, G.
- 4766 Ciak, J.
- 7941 Ciccarese, F.
- 8213 Ciccone, V. J.
- 8225 Ciccotelli, N.
- 8466 Cichowicz, S. M.
- 5897 Cid-Dresdner, H.
- 69 Ciegler, A.
- 5266 Ciegler, A.
- 7069 Ciegler, A.
- 9704 Ciegler, A.
- 9722 Ciegler, A.
- 5675 Cieniecka, A.
- 3406 Cieslak, E.
- 5675 Cieslak, J.
- 1645 Cierman, A.
- 6878 Cinq-Mars, G. V.
- 3405 Cipolla, M.
- 9152 Cirovic, M.
- 7926 Cirulli, M.
- 7941 Cirulli, M.
- 9876 Cirulli, M.
- 4887 Cisbani, B.
- 3992 Citronbaum, D.
- 10546 Citronbaum, D. M.
- 8511 Ciufecu, C.
- 1906 Civerolo, E. L.
- 2299 Ciz, K.
- 608 Claes, P. J.
- 2505 Claeysens, M.
- 4955 Clancey, J. K.
- 9635 Clancy, M.
- 9646 Clancy, M.
- 9620 Clapperton, J. L.
- 3478 Clare, B. G.
- 423 Claridge, C. A.
- 1648 Clark, A. J.
- 5382 Clark, C. A.
- 6278 Clark, C. A.
- 555 Clark, D. C.
- 2613 Clark, D. S.
- 2911 Clark, D. S.
- 9335 Clark, G. E. D.
- 2144 Clark, G. W.
- 7497 Clark, J. A.
- 8276 Clark, K.
- 5275 Clark, R. L.
- 2346 Clark, R. P.
- 8056 Clark, V. L.
- 8057 Clark, V. L.
- 1553 Clark, W. A.
- 6969 Clarke, B. J.
- 3522 Clarke, D. D.
- 8361 Clarke, J. D.
- 6937 Clarrier, T. C.
- 2339 Claus, G.
- 9271 Clausen, E. M.
- 9713 Claydon, N.
- 9538 Claypool, L. L.
- 1295 Clayton, Y. H.
- 5681 Cleophay, J.
- 361 Clerjeau, M.
- 6251 Clerjeau, M.
- 7726 Clifford, A. J.
- 8471 Clifford, A. J.
- 6396 Clifford, D. R.
- 7981 Clifford, D. R.
- 1551 Clinard, E. H.
- 10538 Cline, J. C.
- 1894 Close, R. C.
- 1895 Close, R. C.
- 7118 Close, R. C.
- 7120 Close, R. C.
- 6428 Clough, K. S.
- 1196 Clowes, R.
- 6737 Cluzel, M.
- 2097 Cluzel, R.
- 6737 Cluzel, R.
- 10460 Cluzel, R.
- 3370 Cmelka, D.
- 10590 Coan, M. E.
- 10551 Coates, D. A.
- 8512 Cobb, B. F.
- 1122 Cobb, F. W. Jr.
- 7513 Cobo Elosua, M.
- 7514 Cobo Elosua, M.
- 4877 Cocchioni, M.
- 7484 Cochran, K. W.
- 3459 Cockbain, A. J.
- 7472 Cocker, R.
- 3318 Codd, G. A.
- 228 Codifer, L. P. Jr.
- 5557 Coelho, K. B.
- 360 Coffey, M. D.
- 6169 Coffey, M. D.
- 6047 Cogan, T. M.
- 2617 Coggins, S.
- 2802 Cohan, J. S.
- 48 Cohen, A. L.
- 9024 Cohen, B. A. J.
- 9192 Cohen, D. B.
- 9193 Cohen, D. B.
- 1969 Cohen, E.
- 2437 Cohen, M. A.
- 5545 Cohen, V. I.
- 10135 Cohen, V. I.
- 4466 Cohen, Y.
- 7884 Cohen, Y.
- 8085 Cohen, Y.
- 9860 Cohen, Y.
- 8220 Colacco, D.
- 8969 Colah, B. R.
- 9784 Colbert, T. R.
- 10478 Colbourne, J. S.
- 6773 Cole, A. L. J.
- 3023 Cole, D. S.
- 434 Cole, H. Jr.
- 4517 Cole, H. Jr.
- 8796 Cole, H. Jr.
- 3970 Cole, J. A.
- 3347 Cole, M.
- 8178 Cole, M.
- 3654 Cole, M. A.
- 6409 Cole, M. A. (Contd)
- 3974 Cole, M. S.
- 2766 Cole, O. O.
- 6869 Cole, O. O.
- 985 Cole, R. J.
- 6956 Cole, R. J.
- 7054 Cole, R. J.
- 9719 Cole, R. J.
- 7092 Coleman, G.
- 9738 Coleman, G.
- 9627 Coleman, K.
- 9628 Coleman, K.
- 3314 Coleman, W. H.
- 4389 Coley-Smith, J. R.
- 6314 Coley-Smith, J. R.
- 4351 Colhoun, J.
- 4481 Colhoun, J.
- 4482 Colhoun, J.
- 7925 Colhoun, J.
- 794 Collard, P.
- 1542 Collee, J. G.
- 7857 Collier, R. J.
- 7860 Collier, R. J.
- 2409 Collins, C. H.
- 4196 Collins, E. B.
- 8492 Collins, E. B.
- 3678 Collins, F. M.
- 989 Collins, G. J.
- 4222 Collins, J. L.
- 3175 Collins, M. D.
- 620 Collins, M. S.
- 8168 Collins, M. S.
- 1695 Collins, R. P.
- 8488 Collins, W. F.
- 8777 Collins, W. W.
- 175 Collins-Thompson, D.
- 9556 Collins-Thompson, D.
- 5689 Collum, P.
- 7282 Collyer, J. E.
- 6768 Colman, G.
- 8074 Colonna, W. J.
- 2260 Colonna-Cesari, F.
- 2268 Colvin, E. W.
- 10230 Colvin, H. J.
- 3745 Colvin, H. M.
- 478 Colwell, R. R.
- 1184 Colwell, R. R.
- 3136 Colwell, R. R.
- 4284 Colwell, R. R.
- 4620 Colwell, R. R.
- 4621 Colwell, R. R.
- 4886 Colwell, R. R.
- 7290 Colwell, R. R.
- 7505 Colwell, R. R.
- 8302 Colwell, R. R.
- 10109 Colwell, R. R.
- 10111 Colwell, R. R.
- 115 Combs, M. E.
- 9052 Comber, K. R.
- 6317 Combrink, J. C.
- 6086 Combs, T. J.
- 9324 Combs, T. J.
- 1292 Cominazzini, C.
- 133 Commoner, B.
- 4852 Compere, A. L.
- 4918 Compere, A. L.
- 10452 Compere, A. L.
- 10453 Compere, A. L.
- 8071 Concalves de Lima, O.
- 653 Condon, R. G.
- 5761 Condon, R. G.
- 6646 Condon, R. G.
- 10262 Condon, R. G.
- 7249 Congregado, F.
- 6154 Conklin, A. R. Jr.
- 175 Conley, D. R.
- 1199 Connamacher, R. H.
- 868 Conner, A. H.
- 10351 Conner, D.
- 5184 Conner, H. A.

Author index

419 Connors, W. J.
4174 Connors, W. J.
4620 Conrad, B. F.
7252 Considine, P. J.
10412 Conti, F.
9780 Conti, M.
9781 Conti, M.
8194 Contreras, A.
10604 Converse, G. M.
8729 Converse, R. H.
7870 Conway, K. E.
8745 Conway, K. E.
3855 Conway, R. A.
5778 Cook, A. E.
4974 Cook, A. R.
10153 Cook, E. S.
256 Cook, F. D.
10183 Cook, P. D.
369 Cook, R. J.
7920 Cook, R. J.
8014 Cook, R. J.
8652 Cook, R. J.
7952 Cook, R. T. A.
4329 Cooke, B. M.
8134 Cooke, G. G.
6396 Cooke, L. R.
3876 Cooke, M.
8301 Cooke, R.
3417 Cooley, C. O.
4095 Coombe, R. G.
2473 Cooney, C. L.
2543 Cooney, C. L.
5087 Cooney, C. L.
5188 Cooney, C. L.
6010 Cooney, C. L.
6011 Cooney, C. L.
9348 Cooney, C. L.
4178 Cooney, J. D.
2094 Cooney, J. J.
5643 Cooper, A.
5457 Cooper, D. T.
7398 Cooper, J. A.
7843 Cooper, J. F.
250 Cooper, J. L.
3166 Cooper, M.
6460 Cooper, R. E.
94 Cooter, N.
9610 Cope, R. C.
1974 Copeland, R. B.
7863 Copeman, R. J.
8685 Copeman, R. J.
7592 Coppel, H. C.
10645 Coppel, H. C.
2229 Corbel, M. J.
8029 Corbin, E. J.
7300 Corbion, B.
4790 Corcoran, J. W.
8167 Corcoran, J. W.
5381 Cordas, D. I.
10186 Cordell, G. A.
8781 Corden, M. E.
4186 Corlett, D. A., Jr.
4979 Corlett, M.
4644 Cormier, M.
6537 Corner, J.
1418 Coronelli, C.
460 Corpe, W. A.
10278 Corrie, J. E. T.
1860 Corso, I. C.
3328 Cortez, J.
3329 Cortez, J.
5696 Cosgrove, R. F.
8101 Cosgrove, R. F.
2343 Cosh, D.
4293 Costar, A. S.
3285 Costain, G. A.
5986 Costerton, J. W.
4249 Costilow, R. N.
10555 Costilow, R. N.
350 Cotter, E. J.
7341 Coto, C. F.
2989 Cottin, J.
6111 Cottyn, B. G.
9525 Coubombel, C.
9213 Coughlan, J.
6035 Coulet, G.
5921 Coulet, P. R.
7611 Coulet, P. R.
9879 Coulomb, P.
9556 Coulter, R. M.
7401 Counts, G. W.
4721 Couprie, F.
10239 Courtieu, A. - L.
10240 Courtieu, A. - L.
2038 Courtois, H.
6859 Courvalin, P.
1320 Cousin, M. A.
9546 Cousin, M. A.
8256 Cousins, C. M.
9558 Cousins, C. M.
5557 Coutinho, J. G.
7233 Coutts, M. P.
7235 Coutts, M. P.
7150 Coutts, R. H. A.
4518 Covey, R. P., Jr.
7289 Cowell, R. R.
5605 Cowen, R. A.
10058 Cowling, D. W.
2040 Cowling, E. B.
6020 Cowling, E. B.
6387 Cowling, E. B.
3924 Cox, D. A.
10258 Cox, D. A.
5406 Cox, D. F.
10572 Cox, F. R.
8490 Cox, G. C.
1543 Cox, M. E.
10572 Cox, M. E.
167 Cox, N. A.
1787 Cox, N. A.
4965 Cox, N. A.
6072 Cox, N. A.
7011 Cox, N. A.
3349 Cox, R. E.
7054 Cox, R. H.
6057 Cox, W. A.
373 Coxon, D. T.
3567 Coxon, D. T.
1301 Coyle, M. B.
4850 Coyle-Gilchrist, M. M.
8605 Coyne, D. P.
9204 Crabill, M. R.
2361 Crabtree, S. J., Jr.
5144 Craig, H. C.
287 Craig, J.
5713 Craig, W. S.
4920 Cram, L. S.
9196 Cramer, W. N.
7764 Craven, S. E.
10150 Craver, F.
6982 Crawford, D. L.
8868 Crawford, D. L.
7822 Crawford, F. M.
9436 Crawford, I. P.
4625 Crawford, R. G.
6982 Crawford, R. L.
8868 Crawford, R. L.
9642 Crawshaw, R.
7530 Creagan, C. C.
6755 Creamer, C. H.
10150 Crema, A.
7025 Crema, M. L.
9122 Crescenzi, V.
5414 Cress, F. D.
4307 Crete, R.
4461 Crete, R.
4850 Crewe, P.
6603 Cricchio, R.
9420 Criddle, W. J.
1992 Crill, P.
4695 Cripps, N.
1842 Crispin, A.
2083 Criswell, J. G.
4594 Criswell, J. G.
5498 Criswell, J. G.
7276 Criswell, J. G.
5310 Crittenden, H. W.
8318 Crociani, F.
2878 Crockett, J. J.
9815 Cromarty, R.
8251 Cromer, M. D.
5614 Croner, P. B.
8452 Cronk, T. C.
1962 Cronshaw, D. K.
3538 Cronshaw, D. K.
10544 Crook, R. G.
2550 Cropper, D. G.
6479 Crosa, J. H.
10219 Croshaw, B.
5823 Crossland, J.
580 Crotti, P.
3437 Crouzet, J.
724 Crow, S.
4624 Crow, S. A.
8660 Crowe, A. D.
616 Crowe, D. F.
7690 Crumby, R. L.
4468 Crute, I. R.
5426 Crute, I. R.
7956 Crute, I. R.
6792 Cruz, F. S.
6661 Csatory, K. N.
6306 Csinos, A.
7937 Csinos, A.
9939 Csizinsky, A. A.
2120 Cucu, V.
5267 Cucullu, A. F.
6131 Cucullu, A. F.
426 Cuinier, C.
1178 Cuinier, C.
79 Cullen, G. A.
589 Cullen, L. F.
122 Cundell, A. M.
6983 Cundell, A. M.
6148 Cundliffe, E.
4323 Cunter, B. M.
5335 Cunfer, B. M.
9921 Cunliffe, C.
9541 Cunliffe, H. R.
2492 Cunningham, A.
246 Cunningham, C. M.
7763 Cunningham, F. E.
4205 Cunningham, J. D.
1910 Cunningham, J. L.
1859 Cupertino, F. P.
2772 Cupertino, F. P.
7798 Cuperus, F.
2863 Gupta, K.
4784 Curovaz, E.
100 Curin, J.
6354 Curl, E. A.
8036 Curl, E. A.
10344 Curran, W. V.
3995 Curry, J. C.
5045 Curtis, C. R.
6821 Curtis, N. A. C.
7451 Curtis, P. J.
4811 Curtis, R. W.
7594 Curtiss, R.
233 Cushman, M.
7068 Cushman, M.
3446 Custer, C. S.
158 Custer, E. W.
4207 Custer, E. W.
985 Cutler, H. G.
4675 Cutler, J. C.
5794 Cutright, D. E.
6074 Cutting, C. L.
9833 Cutuli, G.
2993 Cybulski, J.

Author index

- 3000 Cybulska, J. (Contd)
3003 Cybulska, J.
4564 Cygan, Z.
5237 Cyłkowska, R.
2432 Cysewski, G. R.
2544 Cysewski, G. R.
3394 Czarnowska, W.
3406 Czarnowska, W.
3895 Czechowska, A.
3416 Czerkawska, W.
5274 Czerwiecki, L.
2257 Czira, G.
7597 Czubar, J.
5384 Czapryna, M.

9742 D'Agnoles, G.
4723 D'Alessandri, R. M.
4749 D'Amato, R. F.
1156 D'Ambrósio, V.
5391 D'Ambrósio, V.
3068 D'Amico, G.
10586 D'Aoust, J. Y.
3221 D'Arcy, P. F.
909 D'Aubert, S.
933 D'Aubert, S.
3405 D'Aubert, S.
5199 D'Aubert, S.
6029 D'Aubert, S.
2598 D'Mello, J. P. F.
6099 D'Mello, J. P. F.
9617 D'Mello, J. P. F.
7788 D'Urso, G.
6162 D'Yakov, Y. T.
6286 D'Yakov, Y. T.
7762 da Cunha Netto, S. J.
1905 da Graca, J. V.
8708 da Graca, J. V.
9986 da Graca, J. V.
9937 Daaloul, A.
5918 Dabbous, M. K.
1054 Dabek, A. J.
8674 Dabek, A. J.
1883 Dabrowska, J.
9585 Dacey, J.
4184 Daelman, W.
4566 Daft, M. J.
1083 Daftari, L. N.
2330 Dah, E.
1565 Dahlback, A.
9036 Dahlback, A.
10543 Dahlback, A.
6346 Daiber, C. C.
7984 Daiber, C. C.
2639 Daigneault, N.
9841 Daines, R. H.
2500 Dainty, R. H.
2439 Dajani, A. S.
2993 Dajek, Z.
3000 Dajek, Z.
3003 Dajek, Z.
6723 Dakay, M.
1046 Dakshinamurti, V.
1934 Dakshinamurti, V.
6359 Dakwa, J. T.
6060 Dalaly, B. K.
6212 Dale, J. L.
8670 Dale, J. L.
5413 Dale, P. J.
2676 Dalela, G. G.
8769 Dalela, G. G.
2651 Dalen, A. B.
3452 Dalen, A. B.
9258 Daley, R. J.
2350 Dalla Torre, G.
5841 Dalling, M. J.
9706 Dalrymple, B.
473 Dalton, H.
2380 Dalton, H.
10593 Dalton, H. P.
5144 Daly, J. W.

2580 Daly, M.
7769 Daly, M. C.
9707 Dam, R.
6846 Damadian, R.
7132 Damann, K. E. Jr.
256 Damirgi, S. M.
3789 Dampier, M. F.
1767 Damron, B. L.
5320 Damsteegt, V. D.
8631 Damsteegt, V. D.
10374 Danbara, H.
5869 Dandawate, C. N.
2321 Dandy, G. C.
2966 Danenberg, P. V.
10526 Dang, N. D. P.
1886 Danger, S. R. S.
9223 Danglot, C. D.
9389 Danhardt, S.
2485 Daniel, R. M.
301 Daniell, J. W.
3497 Daniell, J. W.
784 Daniels, B. A.
6655 Daniels, J. V.
7141 Daniels, M. J.
560 Daniels, P. J. L.
1399 Daniels, P. J. L.
5643 Daniels, P. J. L.
9739 Danielsson, M. -L.
5152 Daniewski, W. M.
2963 Danilenko, G. I.
4680 Danilenko, G. I.
2440 Danilenko, V. P.
8363 Dankert, J.
24 Danno, J. G.
9433 Danson, M. J.
8180 Dao, D. H.
8749 Dar, G. N.
9169 Darakhshan, H.
350 Darbyshire, B.
3631 Darbyshire, J. F.
8974 Dargelos, R.
6936 Darke, A.
7403 Darland, G.
1997 Darley, E. F.
3988 Darling, C. L.
2688 Darlington, L. C.
4450 Darlington, L. C.
4962 Darmon, M.
4222 Darrow, J. F.
10066 Dart, P. J.
2216 Darwish, M. M.
7762 das Dores Ferreira, M.
4 Das, B. C.
5 Das, B. C.
6624 Das, B. C.
1438 Das, C. R.
6219 Das, S. N.
1230 Das, T. K.
5865 Dasch, G. A.
3754 Daschner, F.
6555 Daschner, F.
7383 Daschner, F.
1829 Dasgupta, B. R.
3484 Dasgupta, M. K.
8588 Dasgupta, M. K.
6511 Dash, B. C.
3155 DaSilva, E.
8917 Dasilva, E. J.
2100 Dastidar, G.
2938 Dastidar, S. G.
5549 Dastidar, S. G.
8951 Dastidar, S. G.
3834 Daszynski, J.
1229 Dat-Xuong, N.
2084 Date, R. A.
2884 Date, R. A.
1031 Dath, A. P.
8646 Dath, A. P.
8683 Datta Gupta, M.
4729 Datta, A.

4729 Datta, G. C.
5423 Datta, T. P.
5800 Dausht, A. S.
6597 Daum, S. J.
9093 Daum, S. J.
9094 Daum, S. J.
3045 Dauter, A. Z.
4884 Dauterive, Jr.
3629 Dave, P. V.
3132 Davenport, C. V.
6308 Davet, P.
6309 Davet, P.
9926 Davet, P.
9946 Davet, P.
4709 Davey, R. A.
10571 David, H. L.
7031 Davidek, J.
5194 Davidex, L. C.
4077 Davidson, B. E.
4078 Davidson, B. E.
4082 Davidson, B. E.
4083 Davidson, B. E.
4084 Davidson, B. E.
9166 Davidson, I.
3257 Davidson, I. W.
5983 Davidson, I. W.
3458 Davidson, J. G. N.
5121 Davidson, L.
6865 Davidson, L.
4645 Davidson, P. T.
7307 Davidson, P. T.
5448 Davidson, R. W.
10620 Davidson, R. W.
6242 Davidson, T. R.
2606 Davidson, W. D.
6037 Davies, D. G.
10336 Davies, D. H.
6539 Davies, D. J. G.
8909 Davies, D. R.
6067 Davies, F. L.
6068 Davies, F. L.
6070 Davies, F. L.
9654 Davies, F. L.
9655 Davies, F. L.
9656 Davies, F. L.
2087 Davies, H. A.
6859 Davies, J.
2104 Davies, J. E.
6148 Davies, J. E.
7739 Davies, J. G.
483 Davies, J. S.
6975 Davies, P. A.
737 Davies, R. J.
4435 Davies, W. P.
9834 Davino, M.
5426 Davis, A. A.
5017 Davis, B.
7280 Davis, D. E.
2748 Davis, D. W.
6329 Davis, D. W.
694 Davis, E. N.
4930 Davis, J. C.
1941 Davis, J. R.
9436 Davis, K. A.
8598 Davis, L. H.
1465 Davis, N. D.
10388 Davis, N. E.
77 Davis, P. J.
6954 Davis, P. J.
2857 Davis, R. D.
6321 Davis, R. P.
7192 Davis, R. P.
7822 Davis, R. W.
8800 Davis, S. H. Jr.
10136 Davis, W. B.
7079 Davison, L. I.
3085 Davydova, A. A.
961 Dawood, A. H. M.
962 Dawood, A. H. M.
1430 Dawood, A. H. M.

Author index

1431 Dawood, A. H. M. (Contd)
 1432 Dawood, A. H. M.
 1433 Dawood, A. H. M.
 4467 Dawson, P. R.
 1746 Day, E. J.
 4925 Day, J. L.
 0066 Day, J. M.
 449 Dazzo, F. B.
 4585 Dazzo, F. B.
 0471 de Assumpcao, E.
 0607 de Azevedo Carneiro, J.
 5563 de Barale, E. E.
 0177 de Barsy, Th.
 7975 de Bertoldi, M.
 2504 de Bruyner, C. K.
 2505 de Bruyner, C. K.
 7701 de Cabrera, S.
 3782 de Carvalho Lima, L. P.
 1706 de Castro Ramos, R.
 4165 de Castro Ramos, R.
 4677 de Clercq, E.
 5583 de Clercq, E.
 7309 de Corte-Baeten, K.
 7573 de Dreu, J.
 7575 de Floras, S.
 7565 de Gioris, G. S.
 8204 de Groot, I.
 8205 de Groot, I.
 8206 de Groot, I.
 3602 de Groot, R. C.
 0021 de Groot, R. C.
 7040 de Groote, G.
 1991 de Jong, J.
 8779 de Jong, J.
 7758 de Jong, L.
 7240 de Kam, M.
 756 de Kwaadsteniet, J. W.
 5123 de La Torre, C.
 7188 de Lange, J. H.
 4029 de Leij, L.
 1683 de Leon, H. A.
 6451 de Leval, J.
 6974 de Ley, J.
 4288 de Londono, N.
 9161 de Meester, C.
 8071 de Mello, J. F.
 564 de Menezes, J. P.
 8204 de Mik, G.
 8205 de Mik, G.
 8206 de Mik, G.
 6513 de Nollin, S.
 7615 de Ocampo, A. T.
 7580 de Pacheco, A.
 0150 de Pascale, V.
 2451 De Rosa, M.
 6957 De Rosa, M.
 6957 De Rosa, S.
 7565 de Ruiz Holgado, A. P.
 8284 de Sa, J. D. H.
 9362 de Santi, M. S. S.
 8284 de Saxe, M. J.
 930 De Schryver, F.
 914 De Scillia, A.
 1859 de Silva, A. R.
 4677 de Somers, P.
 0179 de Somers, P.
 8976 De Souza, N. J.
 4896 de Temmerman, P.
 3564 de Trogoff, H.
 9151 De Vault, L.
 9152 De Vault, R. L.
 9971 de Villiers, D. A.
 0501 De Vito, D.
 3192 De Vor, H.
 4064 De Windt, F. E.
 9901 de Wit, P. J. G. M.
 9944 De Zoeten, G. A.
 1230 De, A. B.
 8308 De, S. K.
 8895 De-Polli, H.
 370 Deacon, J. W.
 4963 Deal, S. J.
 205 Dealy, J.
 7429 Dean Wilson, B.
 5630 Dean, E.
 8771 Dean, J. L.
 480 Dean-Raymond, D.
 7711 Dean-Raymond, D.
 9576 Deane, D. D.
 5842 Deb, J. R.
 2400 Debbie, J. G.
 930 Debevere, J. M.
 1846 Debnam, J. R.
 7423 DeBoer, C.
 2240 Debono, M.
 5506 Debruck, J.
 2891 Decaur, J.
 4246 Declerck, D.
 6576 Declercq, J. P.
 88 Decq, A.
 7550 Dedonder, R. A.
 4797 Deffieux, G.
 828 Degtjar, F. R.
 885 Deguchi, E.
 8690 Dehner, H. W.
 3959 Dehority, B. A.
 8993 Deig, E. F.
 2753 Deighton, F. C.
 4866 Deinema, M. H.
 6293 Dekhuijzen, H. M.
 3667 Dekker, J.
 1325 del Busto, R.
 9063 del Busto, R.
 10412 Del Giudice, R.
 1767 Del Monte, P.
 9227 Del Olvido Chereguini, M.
 7615 del Rosario, E. J.
 1753 del Valle, F. R.
 123 Delaney, J. M.
 8910 Delaney, R. H.
 7237 Delatour, C.
 8004 Delatour, C.
 7024 Delattre, J. M.
 5965 Delbaere, T. J.
 5743 Delcambe, L.
 8070 Deleide, G.
 2505 Deleyn, F.
 6032 Delgado, R.
 5714 Delhomme, C.
 493 Deliwala, C. V.
 34 Dellacherie, E.
 6975 Dellaglio, F.
 8071 Delle Monache, F.
 8071 Delle Monache, G.
 735 Dellinger, J. D.
 8995 DeLong, D. C.
 7062 Delort-Laval, J.
 7792 Deltour, J.
 10177 Deltour, R.
 2479 DeLucas, M.
 2321 DeLucia, R. J.
 2877 Delwiche, C. C.
 8269 Delwiche, C. C.
 638 Demain, A. L.
 2255 Demain, A. L.
 2473 Demain, A. L.
 4805 Demain, A. L.
 5763 Demain, A. L.
 7068 Demain, A. L.
 7430 Demain, A. L.
 7652 Demain, A. L.
 7832 Demain, A. L.
 9047 Demain, A. L.
 9054 Demain, A. L.
 9500 Demain, A. L.
 6575 Demarinis, R. M.
 893 Demchinskaja, L. A.
 8938 Demchinskaja, L. A.
 2971 Demchuk, B. N.
 4665 Demerseman, P.
 4048 Demina, A. A.
 3899 Demirovski, E.
 1986 Demmink, J. F.
 1424 Demny, T. C.
 4241 Dempster, J. F.
 5813 Dempster, J. F.
 8776 Demski, J. W.
 8825 Demski, J. W.
 9770 Demski, J. W.
 1523 Deneke, J.
 6587 Denerley, P. M.
 2963 Denisova, L. V.
 4680 Denisova, L. V.
 5276 Denizel, T.
 5277 Denizel, T.
 3568 Dennis, C.
 6321 Dennis, C.
 7192 Dennis, C.
 3325 Denny, W. A.
 1507 Denson, J.
 10442 Denton, R. S.
 1253 Denys, A.
 6520 Denys, A.
 120 Deo, P. G.
 872 Deobagkar, D. N.
 5150 Deol, B. S.
 10482 DePinto, J. V.
 4066 Deploey, J. J.
 2432 Der Yang, R.
 6874 Der Yang, R.
 3087 Derbin, M. I.
 6668 Derbin, M. I.
 1775 Derbyshire, J. C.
 1327 DerRegis, R. G.
 6576 Dereppe, J. M.
 204 Derieux, W. T.
 6728 Dermietzel, R.
 4876 Derons, M.
 7458 Derteva, I. I.
 2638 Dervish, M. T.
 664 DeSanctis, A. N.
 6790 Deschamps, C.
 2074 Deschodt, C. C.
 8028 Deschodt, C. C.
 1525 Deshazer, J. A.
 634 Deshmukh, P. U.
 5085 Deshpande, K. B.
 6421 Deshpande, K. B.
 7614 Deshpande, K. B.
 4204 Deshpande, S. Y.
 7589 Desjardins, P. R.
 7672 Deslandes, Y.
 3390 Desmazaud, M. J.
 6908 Desmazaud, M. J.
 10179 Desmyter, J.
 5690 Despreaux, C. W.
 6566 Dessaut, B.
 6487 Dessens-Kroon, M.
 5070 DeToma, F. J.
 616 Detrez, G.
 521 Detroy, R. W.
 8476 Dettman, B.
 5071 Deuel, T. F.
 6143 Dev, S.
 6860 Devau, M.
 9372 Devaud-Felix, M.
 8974 Devaux, G.
 7864 DeVay, J. E.
 2188 Deveikis, A.
 7933 Devergne, J. C.
 9749 Devergne, J. C.
 2345 Deverill, C. E. A.
 4695 Deverill, C. E. A.
 3661 Deveze, L.
 5794 Devine, M. J.
 2977 Devinsky, F.
 10196 Devinsky, F.
 5693 Devlin, H. R.
 1466 Devoucoux, J.
 2560 Devoyod, J. J.

Author index

- 1795 Devriendt, H.
 4243 Devriendt, H.
 4246 Devriendt, H.
 4713 Devriese, L.
 9045 Devriese, L.
 3002 Devriese, L. A.
 7072 Devys, M.
 3097 DeWalle, F. B.
 10438 DeWalle, F. B.
 5779 Dewans, M. L.
 5808 Dewey, L.
 1587 DeWitt, W. E.
 3553 DeWolf, G.
 963 Dexter, C.
 8024 Dey, B. K.
 5845 Deyhle, R. R.
 2191 DeYoung, J. L.
 9737 Dezelic, G.
 9737 Dezelic, N.
 2680 Dhanjari, A. S.
 8709 Dhar, A. K.
 10009 Dhar, A. K.
 327 Dhar, V.
 3558 Dhar, V.
 9882 Dhar, V.
 2820 Dhavantari, B. N.
 899 Dhawan, N.
 6416 Dhawan, N.
 3508 Dhawan, S.
 5750 Dhawan, V.
 3838 Dhennin, L.
 5326 Dhillon, B. S.
 7963 Dhillon, P. S.
 5354 Dhillon, S. S.
 1610 Dhingra, K. L.
 1076 Dhingra, M. K.
 3982 Dhopler, A. M.
 4215 di Girolamo, R.
 9122 Di Marco, A.
 10412 Di Nola, A.
 1512 Diab, A.
 6411 Diab, A.
 3462 Diachun, S.
 9759 Diachun, S.
 810 Dianese, J. C.
 2772 Dianese, J. C.
 5269 Dianese, J. C.
 251 Dias, H. F.
 6271 Dias, H. F.
 9473 Dias, H. W.
 2082 Diatloff, A.
 8905 Diatloff, A.
 10440 Diaz, L. F.
 6187 Diaz-Ruiz, J. R.
 9608 Dibenedetto, S.
 7018 Dick, R. L.
 2626 Dickens, J. W.
 5272 Dickens, J. W.
 6899 Dickensheets, P. A.
 7792 Dickerson, R. W.
 4278 Dickie, N.
 8288 Dickie, N.
 379 Dickinson, C. H.
 4459 Dickinson, C. H.
 4999 Dickinson, C. H.
 7889 Dickinson, C. H.
 9861 Dickinson, C. H.
 4554 Dickinson, D. J.
 4649 Dickinson, J. M.
 5350 Dickson, J. D.
 8765 Dickson, M. H.
 7742 Didienne, R.
 9697 Diebold, G. J.
 8957 Diedrichsen, A.
 5258 Diehl, J. -F.
 7851 Diehl, J. -F.
 3626 Diem, H. G.
 5486 Diem, H. G.
 5136 Diena, B. B.
 1465 Diener, U. L.
 5052 Diesterhaft, D.
 1660 Dietrichs, H. H.
 4126 Dietz, A.
 7423 Dietz, A.
 10506 Dietz, A.
 1877 Diez, F. B.
 188 Diggs, C. D.
 7798 Dijkers, J.
 4476 Dijkstra, J.
 9898 Dijkstra, J.
 2963 Dikolenko, E. I.
 9276 DiLello, D.
 3693 Dillingham, E. O.
 9083 Dillon, H. C. Jr.
 10604 Dillon, H. C. Jr.
 2889 Dilworth, M. J.
 2923 Dimitrijevic, B.
 4628 Dimitrijevic, B.
 4281 Dimond, R. L.
 9030 Dinell, B. A.
 2119 Dinh-Nguyen, N.
 6804 Dinka, S. K.
 9960 Diomander, M.
 9460 Dion, H. W.
 1807 DiProssimo, V. P.
 3554 Dirks, V.
 8742 Dirks, V. A.
 7856 Dirks, J.
 10022 Dirol, D.
 2887 Dis'kor, B. V.
 8993 DiSalvo, L. H.
 4308 Ditterline, R. L.
 7200 Ditterline, R. L.
 3320 Diugonski, J.
 7636 Davies, C.
 7883 Diwakar, M. C.
 2169 Diwan, A.
 2862 Dix, N. J.
 4030 Dixiadis, I.
 6507 Dixit, S. N.
 8072 Dixit, S. N.
 7503 Dixneuf, P.
 4367 Dixon, G. R.
 6339 Dixon, G. R.
 10534 Dixon, H.
 5802 Dixon, R. E.
 4912 Dixon, W. S.
 3392 Djarrahbach, A. R.
 9581 Djedjeva, G.
 9937 Djerbi, M.
 9964 Djerbi, M.
 3321 Dlugonski, J.
 8153 Dmitrienko, G. I.
 8513 Dmitriev, V. V.
 7855 Dmitriev, L. N.
 6792 Do Nascimento Lopes, J.
 9867 Doazan, J. P.
 4175 Dobarganes Garcia, M. C.
 53 Dobashi, Y.
 54 Dobashi, Y.
 866 Dobashi, Y.
 2085 Dobereiner, J.
 5499 Dobereiner, J.
 8895 Dobereiner, J.
 4915 Dobersky, P.
 5617 Dobias, J.
 9941 Dobias, K.
 7436 Dobler, M.
 5868 Dobric, D.
 3600 Dobriyal, N. D.
 6063 Dobrovol'skaya, V. M.
 8285 Dobrovol'skaya, V. M.
 7897 Dobryanskaya, M. V.
 639 Dobrynin, V. N.
 7474 Dodakundi, G. B.
 6319 Dodd, K.
 6979 Dodgson, K. S.
 7479 Doer, P. W.
 1657 Doeller, H. W.
 10561 Doeller, H. W.
 3274 Doir, A.
 3274 Doir, K.
 6820 Doir, H.
 5466 Doir, S.
 1940 Doker, N.
 6351 Doker, N.
 9883 Doker, N.
 5754 Dolak, L.
 6653 Dolak, L.
 107 Dolan, T. C. S.
 1817 Dolders, R.
 4033 Dolejs, L.
 8495 Dolezalec, J.
 8279 Dolezil, L.
 4936 Dollen, F. G.
 228 Dollen, F. G.
 8579 Dollejs, L.
 3467 Dollet, M.
 6220 Dollet, M.
 1868 Dollinger, E. J.
 6424 Dollwet, H. H. A.
 4048 Dolomanova, M. S.
 4085 Doly, J.
 3250 Doman, N. G.
 7460 Domenech, J.
 8249 Dominguez Hernandez, V.
 9573 Domjan, N.
 1714 Domjan, K. -ne
 9668 Dommett, T. W.
 8443 Domornikova, T. A.
 4739 Domracheva, A. G.
 9156 Domracheva, A. G.
 2060 Domsch, K. H.
 4952 Domstad, P. A.
 9907 Donald, W. W.
 6346 Donaldson, J. M. I.
 7984 Donaldson, J. M. I.
 1808 Donath, R.
 7059 Donath, R.
 3276 Donati, R.
 9998 Donauber, E.
 6094 Donchev, R.
 7504 Dondero, N. C.
 8923 Donecher, B.
 1683 Donkersloot, J. A.
 135 Donnelly, C. B.
 136 Donnelly, C. B.
 8361 Donnelly, W. J.
 9378 Donnelly, W. J.
 5031 Donoghue, H. D.
 3196 Donovan, T. J.
 924 Dooley, J. G.
 960 Doores, S.
 4077 Dopheide, T. A. A.
 4145 Doran, J. W.
 4559 Doran, J. W.
 8870 Doran, J. W.
 5287 Dorland, R. B.
 5288 Dorland, R. B.
 579 Dorman, D. E.
 5748 Dorman, D. E.
 10150 Dormia Cristallo, L.
 692 Dormidoshina, T. A.
 5995 Dorn, G. L.
 5703 Dornberger, K.
 7364 Dornberger, K.
 2166 Dornbusch, K.
 2931 Dornbusch, K.
 7369 Dornbusch, K.
 3523 Doroshkin, N. A.
 5497 Dorosinsky, L. M.
 2834 Dorozhkin, N. A.
 7914 Dorozhkin, N. A.
 1153 Dorworth, C. E.
 10622 Dos Anjos Magalhaes
 10017 dos Santos, A. C.
 1635 Dose, K.
 4970 Doskova, M.
 10390 Dossenna, A.
 4715 Dougherty, P. F.

Author index

- 5627 Dougherty, P. F. (Contd)
7970 Douglas, D. R.
640 Douglas, R. G. Jr.
1607 Douglas, R. G. Jr.
9749 Douine, L.
8932 Douka, C. E.
8268 Doulah, M. S.
6939 Douros, J. D.
4470 Dow, K. P.
2069 Dow, R. L.
8855 Dowden, H. G. M.
5538 Dowding, J. E.
5967 Dowhan, W.
5968 Dowhan, W.
10640 Dowjat, K.
3713 Dowling, J. N.
7339 Dowling, J. N.
3857 Downing, A. L.
6701 Downing, D. L.
9593 Downing, D. L.
6981 Downs, J. E.
8306 Doyle, R. J.
6384 Drachkov, V. N.
580 Dradi, E.
10390 Dradi, E.
3827 Draghici, D.
3829 Draghici, D.
2583 Dragojlov, O.
1530 Dragoni, I.
2585 Dragoni, I.
1642 Drake, H. L.
3572 Drandarevski, C. A.
3586 Drandarevski, C. A.
5402 Draoron, R.
5793 Drapeau, A. J.
51 Drapeau, G. R.
1989 Draper, A. D.
10553 Draper, D. L.
10575 Draper, P.
6807 Drasar, B. S.
3758 Drasar, F. A.
9745 Drausal, B.
4136 Drawert, F.
3791 Drazin, R. E.
3818 Dreesman, G. R.
6000 Dreifuss, P. A.
7810 Dreifuss, P. A.
9546 Dreissen, F. M.
5897 Dresdner, G.
6083 Dresel, J.
1175 Drew, E.
10071 Drew, E. A.
1647 Drews, G.
1196 Drews, J.
9549 Driessen, F. M.
5525 Driessen, J. H.
5624 Driessen, J. H.
7296 Driessen, J. H.
6177 Drijthout, E.
8469 Drion, E. F.
60 Drok, Z. Zh.
8791 Drotarova, A.
5889 Drucker, D. B.
9262 Drucker, D. B.
10240 Drugeon, H.
3986 Drutz, D. J.
337 Drysdale, R. B.
4427 Drysdale, R. B.
7188 Du Plessis, L. M.
5083 Duber, H. C.
5084 Duber, H. C.
7887 Duber, K. S.
7633 Dubernet, M.
1950 Dubey, G. S.
8829 Dubey, G. S.
3555 Dubey, L. N.
7957 Dubey, L. N.
7964 Dubey, L. N.
8834 Dubey, L. N.
5578 Dubinin, N. P.
4644 Dublanchet, A.
8593 Dublish, P. K.
2964 Dubois, J. E.
10050 Dubois-Barnaudopeys, A.
7623 Dubourdieu, M.
4816 DuBus, R.
4998 Duckham, A. N.
5796 Ducluzeau, R.
6645 Ducruix, A.
4496 Ducek, L. J.
4497 Ducek, L. J.
5680 Duda, E.
157 Dudani, A. T.
5329 Dudka, E. L.
6376 Dudley, C. L.
6379 Dudley, C. L.
10484 Dudley, S.
5494 Dudman, W. F.
5747 Dudnik, Y. V.
8723 Dueck, J.
6197 Duffus, J. E.
6297 Duffus, J. E.
8730 Duffus, J. E.
97 Duffus, J. H.
2438 Duffus, J. H.
9594 Dufour, S. W.
5796 Dufresne, S.
462 Dugan, P. R.
6777 Dugan, P. R.
5458 Dugar, P. A.
674 Dugdaler, J.
8796 Duich, J. M.
8507 Duitschaever, C. L.
9575 Duitschaever, C. L.
9578 Duitschaever, C. L.
6605 Dujkic, S.
4595 Duke, S. H.
8735 Dukes, P. D.
5304 Dukhanina, I. A.
2114 Dulaney, E. L.
5731 Dulaney, E. L.
10625 Dulevich, Zh. A.
5224 Dulleys, J. R.
6059 Dulleys, J. R.
4987 Dulman, V.
6566 Dulong de Rosnay, H. L. C.
5793 Dumoulin, P. P.
4704 Dunareanu, G.
1626 Duncan, B.
2645 Duncan, C. L.
9731 Duncan, C. L.
9732 Duncan, C. L.
3610 Duncan, H. J.
10079 Duncan, H. J.
5536 Duncan, I. B. R.
1527 Duncan, M. A.
2401 Dunez, J.
3219 Dunitz, J. D.
7170 Duniway, J. M.
8885 Duniway, J. M.
8886 Duniway, J. M.
9887 Duniway, J. M.
8251 Dunkerley, R. C.
6095 Dunlap, C. E.
5086 Dunleavy, J. A.
3471 Dunleavy, J. M.
6200 Dunleavy, J. M.
8251 Dunn, G. D.
3945 Dunn, I. J.
6967 Dunn, I. J.
10526 Dunn, I. J.
7201 Dunning, A.
8475 Dunsmore, D. G.
8476 Dunsmore, D. G.
5552 Duperray, B.
5545 Duponchel, C.
10135 Duponchel, C.
2974 Dupont, M. C.
5381 Duran, R.
9815 Duran, R.
5773 Durand, M.
6584 Durant, F.
2622 DuRant, J. A.
2048 Durbin, R. D.
8598 Durbin, R. D.
8859 Durbin, R. D.
9721 Durbin, R. D.
320 Durgapal, J. C.
321 Durgapal, J. C.
2744 Durgapal, J. C.
8727 Durgapal, J. C.
8153 Durkin, J. P.
6753 Durochs, J.
9584 Duschfeldt, D.
6041 Duthie, A. H.
2326 Dutka, B. J.
6719 Dutka, B. J.
10475 Dutka, B. J.
3163 Dutkiewicz, J.
5289 Dutkiewicz, J.
9384 Dutler, H.
9385 Dutler, H.
5812 Dutschke, G.
1076 Dutt, B. L.
1077 Dutt, B. L.
4493 Dutt, B. L.
4059 Dutt, S.
2665 Dutta, A. K.
8799 Dutta, A. K.
5888 Dutta, J.
10386 Dutta, P. K.
6043 Dutta, S. M.
7000 Dutta, S. M.
7035 Dutton, R. E.
490 Duval, J.
1319 Duval, J.
4644 Duval, J.
9061 Duval, J.
10125 Duval, J.
8348 Dvadsatova, E. A.
134 Dwivedi, B. K.
3639 Dwivedi, R. S.
6422 Dwivedi, R. S.
8682 Dwivedi, R. S.
10051 Dwivedi, R. S.
3912 Dworschak, D.
5990 Dworsky, P.
1893 Dyck, P. L.
8773 Dyck, P. L.
1585 Dyckman, J. D.
717 Dydek, S. T.
4969 Dye, W. E.
6081 Dyett, E. J.
4499 Dymovich, V. A.
3899 Dyndul, H.
4139 Dzaki, A.
1374 Dzegilenko, N. B.
2230 Dzegilenko, N. B.
6602 Dzegilenko, N. B.
8138 Dzegilenko, N. B.
9098 Dzegilenko, N. B.
10319 Dzegilenko, N. B.
7458 Dzharidze, M. N.
5724 Dzhumayev, B.
2993 Dziarski, R.
3003 Dziarski, R.
3043 Dziegielewska, I.
8715 Dzionowska, M. A.
5687 Dzilinski, E.
3406 Dziurawicz, Z.
8310 Dzumedzei, N. V.
979 Eadie, T.
7812 Eadie, T.
10066 Eaglesham, A. R. J.
9950 Earle, E. D.
4549 Eaton, R. A.
10381 Ebata, E.
3770 Ebata, M.
3771 Ebata, M.

Author index

- 2690 Ebba, T.
6870 Eberhart, B. M.
4905 Ebersole, R.
1176 Eberspacher, J.
1177 Eberspacher, J.
5196 Eberspacher, J.
5197 Eberspacher, J.
7656 Eberspacher, J.
9597 Ebine, H.
7303 Ety, B. L.
5603 Echter, M.
2256 Eckardt, K.
8184 Eckardt, K.
3063 Eckelman, W. C.
4831 Eckels, K. H.
3100 Eckenfelder, W. W.
6677 Eckenfelder, W. W.
6681 Eckenfelder, W. W.
6101 Eckerskorn, W.
3821 Eckert, E. A.
3709 Eckert, J. W.
3710 Eckert, J. W.
8158 Eckstein, Z.
10303 Eckstein, Z.
1562 Edberg, S. C.
7389 Edberg, S. C.
8128 Edberg, S. C.
9272 Edberg, S. C.
1596 Edebo, L.
1597 Edebo, L.
3095 Edel, W.
8209 Edel, W.
7522 Edelmeyer, H.
7527 Edelmeyer, H.
1617 Ederer, G. M.
10599 Ederer, G. M.
836 Edgar, D. B.
6397 Edgar, J. G.
8007 Edgar, J. G.
10233 Egerton, M. T.
10233 Eclich, R. F.
5641 Edmiston, C.
4662 Edmiston, C. E. Jr.
8251 Edmiston, C. E. Jr.
3111 Edmonds, R. L.
7900 Edney, K. L.
1092 Ediva, A. M.
6577 Edselius, B. R.
1043 Edward, J. C.
9165 Edwards, B. G.
7144 Edwards, D. F.
4759 Edwards, J. A.
4216 Edwards, R. A.
5130 Edwards, R. L.
6794 Edwards, S. W.
4392 Edwardson, J. R.
5583 Eoy, V. G.
10179 Eoy, V. G.
3192 Eelderink, I.
9259 Eelderink, I.
354 Eenink, A. H.
7958 Eenink, A. H.
85 Effenberger, R.
4272 Efimova, N. P.
5581 Efimova, N. P.
5628 Efimova, T. P.
10379 Efimova, T. P.
8931 Ehammerdieva, K. Yu.
1421 Egan, R. S.
4790 Egan, R. S.
5689 Egan, R. S.
8167 Egan, R. S.
9151 Egan, R. S.
9152 Egan, R. S.
3719 Egawa, H.
10166 Egawa, H.
9297 Egel, R.
5755 Egger, H.
5756 Egger, H.
7242 Eggins, H. O. W. (Contd)
7244 Eggins, H. O. W.
8009 Eggins, H. O. W.
6926 Egi, Y.
897 Egofarova, R. K.
1300 Egorov, A. A.
897 Egorov, I. A.
44 Egorov, N. S.
2918 Egorov, N. S.
2919 Egorov, N. S.
4818 Egorov, N. S.
5091 Egorov, N. S.
5691 Egorov, N. S.
5737 Egorov, N. S.
6608 Egorov, N. S.
6915 Egorov, N. S.
8388 Egorov, N. S.
9278 Egorov, N. S.
9377 Egorov, N. S.
10370 Egorov, N. S.
10371 Egorov, N. S.
3324 Egorov, S. N.
6919 Egorova, E. N.
8353 Egorova, L. A.
7458 Egorova, V. D.
3589 Eguchi, J.
854 Eguchi, Y.
1652 Eguchi, Y.
4803 Eguchi, Y.
4365 Ehara, Y.
5258 Ehlermann, D.
7851 Ehlermann, D.
7071 Ehman, J.
8993 Ehresmann, D. W.
4627 Ehret, G. R.
605 Ehret, J. M.
8130 Ehret, J. M.
2860 Ehrlich, H. L.
9602 Eicker, A.
605 Eickhoff, T. C.
1201 Eickhoff, T. C.
8130 Eickhoff, T. C.
1371 Eidelshstein, S. I.
4142 Einaga, Y.
9322 Einsele, A. A.
9369 Eisen, H.
2641 Eisenberg, M. S.
8016 Eisenberg, R. M.
5775 Eisenhauer, D. L.
3786 Eissa, A. L.
9112 Eissa, A. L.
8493 Eitenmiller, R. R.
1514 Eitzen, H.
1513 Eitzen, H. E.
4849 Eitzen, H. E.
10047 Eivazis, F.
185 Ejilali, M.
10437 Ekama, G.
2005 Ekbote, M. V.
8340 Eklund, E.
353 Ekundayo, J. A.
7228 Ekwebelam, S. A.
9461 Ekzemplyarov, O. N.
2625 El Din, M.
1794 El Mansy, H. A. H.
2625 El Samie, A.
2789 El Shanawami, M. Z.
6633 El Sherbini, S. H.
3790 El'kin, G. E.
5141 El-Tayeb, S. H. M.
911 El-Amry, Z.
8402 El-Bahrawi, S.
6443 El-Bahrawy, S. A.
6543 El-Beih, F. M.
6204 El-Deen, E.
9112 El-Dewany, A. L.
6023 El-Dib, M. A.
8190 El-Din Shaveen, A. H.
6452 El-Din, A.
8190 El-Diwan, A.
10382 El-Diwan, A.
3327 El-Emary, N. A.
4566 El-Giahmi, A. A.
911 El-Gindy, M.
352 El-Goorani, M. A.
372 El-Goorani, M. A.
6499 El-Haddad, A. F.
1372 El-Kersh, T. A.
6882 El-Kersh, T. A.
5265 El-Khadem, M.
6133 El-Khadem, M.
9762 El-Khatib, S. R.
5562 El-Khawass, S. M.
1359 El-Khwas, F.
5226 El-Koussy, L.
1741 El-Koussy, L. A.
2216 El-Marsafy, M.
9074 El-Marsafy, M.
198 El-Masry, H. G.
1970 El-Nabawy, S. M.
3683 El-Naggar, A. M.
6498 El-Naggar, A. M.
6499 El-Naggar, A. M.
8095 El-Naggar, A. M.
5886 El-Naggar, M. E.
3316 El-Naggar, M. R.
2991 El-Nakeeb, M. A.
8975 El-Rabbat, N. A.
1359 El-Rashidy, R. M.
59 El-Refai, A. M.
961 El-Sadek, G. M.
962 El-Sadek, G. M.
1430 El-Sadek, G. M.
1431 El-Sadek, G. M.
1432 El-Sadek, G. M.
1433 El-Sadek, G. M.
5043 El-Saied, H.
9074 El-Saied, H.
2216 El-Saied, H. M.
7001 El-Salam, M. H. A.
6204 El-Samra, J. A.
9963 El-Sawah, M. Y.
955 El-Sawy, M.
5899 El-Sayed, M. A.
8902 El-Sherbeen, M. H.
9703 El-Sherif, S.
159 El-Shibiny, S.
7001 El-Shibiny, S.
9569 El-Shibiny, S.
4115 El-Tayeb, O. M.
5981 El-Tayeb, O. M.
7670 El-Tayeb, O. M.
8400 El-Tayeb, O. M.
3331 Elagina, N. I.
566 Elander, R. P.
4643 Elanova, E.
6901 Elbein, A. D.
9310 Elder, H. Y.
5834 Eldon, C. P.
3619 Elgersman, D. M.
7755 Elgersman, R. H. C.
3129 Elhag, K. M.
10493 Elhag, K. M.
7425 Elias, B.
2391 Elias, J. M.
1959 Elias, N. A.
8094 Elinov, N. P.
10098 Elisseeva, D. M.
2890 Elkan, G. H.
8629 Elkley, T. M.
8931 Elkina, T. V.
451 Elkins, D. M.
5709 Ellaiah, P.
7256 Ellaiah, P.
2509 Ellames, G.
6279 Ellerbrock, L. A.
6360 Ellerbrock, L. A.
7157 Ellerbrock, L. A.
8530 Ellerman, J. A. G.
2096 Elliker, F. R.
6742 Elliker, P. R.

Author index

- 9624 Elliker, P. R. (Contd)
5337 Ellinghoe, A. H.
4012 Elliott, A. Y.
8003 Elliott, D. A.
6064 Elliott, J. A.
1525 Elliott, L. E.
4708 Elliott, T. J.
579 Ellis, A. I.
2176 Ellis, A. I.
8535 Ellis, J. G.
518 Ellis, L. F.
2031 Ellis, M. A.
4301 Ellis, M. A.
5314 Ellis, M. A.
6355 Ellis, M. A.
7990 Ellis, M. A.
8615 Ellis, M. A.
1999 Elliston, J.
6183 Elliston, J.
7961 Elliston, J.
3962 Ellner, P. D.
6766 Ellner, P. D.
5143 Ellwood, D. C.
8482 Elmagdoub, M.
6040 Elmagdoub, M. N. I.
4583 Elmes, R. P. T.
9615 Elmund, G. K.
1832 Elnagare, S.
1833 Elnagare, S.
10327 Elnenaey, E. A.
7813 Elsken, R. H.
9758 Elstner, E. F.
2573 Elston, P. D.
6834 Elsworth, J. F.
9718 Elvidge, J. A.
9053 Elwan, S. H.
6478 Elwell, L. P.
10118 Elwell, L. P.
8318 Ewald, O.
9702 Emami, A.
2143 Emami, M.
3438 Emehe, C. O.
4268 Emehe, C. O.
8573 Emehe, C. O.
9720 Emehe, C. O.
2440 Emelyanova, O. I.
2103 Emerson, B. B.
7549 Emerson, S. U.
6145 Emeth, C. O.
5340 Emge, R. G.
2497 Emi, S.
1582 Emilson, C. G.
10152 Emilson, C. G.
9859 Emmatty, D. A.
1732 Emmons, D. B.
4206 Emmons, D. B.
6064 Emmons, D. B.
741 Emswiler, B. S.
4188 Emswiler, B. S.
6079 Emswiler, B. S.
7015 Emswiler, B. S.
2058 Emstev, V. T.
5022 Enatsu, T.
5088 Enatsu, T.
5279 Enatsu, T.
1676 Enbaek, F.
2645 Enders, G. L. Jr.
9732 Enders, G. L. Jr.
5727 Endo, A.
8429 Endo, A.
8431 Endo, A.
5654 Endo, H.
2483 Endo, T.
5722 Endo, T.
6686 Endo, T.
1633 Endo, Y.
6773 Eng, L. K.
1675 Engbaek, F.
235 Engel, G.
5264 Engel, G.
6142 Engel, G. (Contd)
8568 Engel, G.
3184 Engel, H. W. B.
8962 Engel, H. W. B.
4656 Engel, R.
1459 Engelbrecht, H.
3236 Engelbrecht, R. S.
5762 Engelfried, C.
901 Engelhardt, G.
2057 Engelhardt, G.
5703 Engelhardt, G.
1679 Engelhardt, M.
6753 Enger, A.
4277 Engert, R. E.
9624 England, D. C.
6681 England, A. J.
2292 Englande, A. J. Jr.
3101 Englande, A. J. Jr.
7587 Engler, W. F.
6943 Englert, G.
593 English, A. R.
1907 English, H.
9914 English, H.
1808 Engst, R.
7059 Engst, R.
6140 Enjalbert, F.
7064 Enjalbert, F.
5508 Enker, P. B.
5510 Enker, P. B.
7483 Enkiri, N. K.
6624 Ennifar, S.
3826 Ennis, F. A.
5741 Enokita, R.
4666 Enouf, J.
4129 Ensign, J. C.
4399 Entwistle, A. R.
4677 Eoly, V. G.
8920 Epanchinov, A. V.
10615 Epp, B. D.
6000 Eppley, R. M.
7073 Eppley, R. M.
8847 Eppstein, D. A.
4605 Epstein, E.
8220 Epstein, E.
1843 Epton, H. A. S.
9921 Epton, H. A. S.
175 Erdman, I. E.
9556 Erdman, I. E.
4226 Erdman, M. D.
6837 Erdman, M. D.
10589 Erdman, Y. J.
3397 Erdtsieck, B.
4773 Eremeyev, A. V.
5739 Eremin, V. A.
3519 Eric, Z.
6468 Erickson, L. E.
6682 Erickson, L. E.
6683 Erickson, L. E.
7649 Erickson, R. J.
9000 Eriksson, B.
9185 Eriksson, G.
2052 Eriksson, K. -E.
2361 Erkenbrecher, C. W.
776 Erler, W.
10583 Erler, W.
5691 Ermakova, G. N.
484 Ermakova, I. T.
8347 Ermakova, L. M.
9435 Ermakova, L. M.
4834 Ermakova, M. N.
5847 Erno, H.
4712 Ernst, C.
10210 Ernst, R. R.
7429 Ernster, L.
1549 Erokhin, V. E.
9435 Erokhhina, L. I.
3943 Eroshina, V. K.
2793 Ersek, T.
3525 Ersek, T.
5578 Ershov, F. I.
5961 Esaki, N.
7172 Esau, K.
7935 Esau, K.
1466 Escallier, G.
6659 Escarzagua, E.
4881 Esch, G. W.
6541 Eschar, L.
1703 Eschenbruch, R.
6977 Eschenbruch, R.
10500 Eschment, R.
2349 Eschner, E.
7422 Esezobo, S.
1456 Esfandi, A.
10239 Espaze, E. -P.
10240 Espaze, E. -P.
5572 Espinel-Ingroff, A.
7701 Espinosa, R.
1067 Esquerre-Tugaye, M. T.
929 Esselen, W. B.
5765 Esser, K.
4774 Esteban, M.
10454 Estes, R. D.
6863 Eswaran, S.
7697 Etchevers, G. C.
856 Etemadi, A. -H.
7642 Etemadi, A. -H.
2500 Etherington, D. J.
4746 Ethiraj, S.
6607 Etingov, E. D.
199 Etter, L.
9107 Ettlinger, V. F.
4062 Ettlinger, L.
688 Etzel, J. E.
5283 Eumarola, D.
6620 Evangelista, A. M.
5143 Evans, C. G. T.
8981 Evans, D. A.
7088 Evans, D. G.
9733 Evans, D. G.
7088 Evans, D. J. Jr.
9733 Evans, D. J. Jr.
9753 Evans, D. W.
4317 Evans, G.
7144 Evans, H. C.
453 Evans, H. J.
6436 Evans, H. J.
10567 Evans, I. M.
9044 Evans, J. B.
5706 Evans, J. R.
83 Evans, R.
240 Evans, R.
2022 Evans, S. G.
4075 Eveleigh, D. E.
7352 Everall, P. H.
5630 Everett, E. D.
7087 Eversee, J.
9811 Eversmeyer, M. G.
3745 Evins, G. M.
6669 Evstigneev, V. I.
652 Evstratov, A. V.
3069 Evstratov, A. V.
9632 Ewart, J. M.
9176 Eways, M. J.
8786 Ewing, D. F.
5220 Exterkate, F. A.
9860 Eyal, H.
8656 Eyal, Z.
9813 Eyal, Z.
10260 Eychmans, L.
8089 Eylan, E.
3712 Eytinger, H.
2219 Eyssen, H.
9745 Ezcurra, E.
5292 Ezechuk, Yu. V.
8498 Ezoe, D.
1503 Ezura, Y.
116 Faber, M. D.
4644 Fabiani, G.
6880 Fabre, C.

Author index

- 8156 Fabre, C. (Contd)
942 Fabri, I.
4425 Faccioli, G.
3996 Facklam, R. R.
8867 Faegri, A.
9951 Fagan, S. G.
775 Fagerberg, D. J.
3375 Fagerberg, D. J.
10119 Faggiani, L.
688 Fagundo, C. R.
10250 Fahey, J. L.
4682 Fahlbusch, B.
159 Fahmi, A. H.
9112 Fahmi, M.
2025 Fahy, P. C.
4417 Fahy, P. C.
8424 Failla, M. L.
5696 Fairbrother, J. E.
2819 Faithfull, E. M.
2032 Faiz-un-Rehman, S.
6121 Faizur-Rahman, A. T. M.
4422 Fakir, G. A.
9527 Falco, J. W.
6910 Falk, M. C.
6478 Falkow, S.
10118 Falkow, S.
7734 Falkowski, J.
3816 Falkowski, L.
1873 Falloon, R. E.
1875 Falloon, R. E.
9298 Falloon, R. E.
10600 Falsen, E.
3238 Fan, L. T.
6682 Fan, L. T.
6683 Fan, L. T.
5571 Fanata, V.
6872 Fanelli, C.
5902 Fang, F. S.
5902 Fang, H. Y.
7484 Fannin, K. F.
5633 Faoagali, J. L.
8247 Faoagali, J. L.
8248 Faoagali, J. L.
372 Farag, S. A.
9569 Farahat, S. E.
3090 Farber, J. F.
6126 Farbood, M. I.
2518 Fareed, V. S.
4793 Farges, C.
5375 Farina, G.
3533 Farkas, G. L.
4375 Farkas, G. L.
210 Farkas, J.
3359 Farkas, J.
6125 Farkas, J.
6470 Farkas, J.
8527 Farkas, J.
8579 Farkas, J.
2643 Farkas-Himsley, H.
7546 Farkas-Himsley, H.
9859 Farley, J. D.
1568 Farmer, I. S.
2379 Farmer, I. S.
10186 Farnsworth, N. R.
5808 Farnsworth, R. J.
2297 Faroo, R. C.
3875 Farrat, S.
6060 Farrag, M. C.
693 Farrah, S. R.
3896 Farrah, S. R.
4865 Farrah, S. R.
6716 Farrah, S. R.
9224 Farrah, S. R.
1326 Farrar, W. E. Jr.
3673 Farrar, W. E. Jr.
3674 Farrar, W. E. Jr.
8949 Farrar, W. E. Jr.
6875 Farre, C.
7420 Farrell, I. D.
10259 Farrell, I. D.
3758 Farrell, W.
10069 Farrington, P.
10635 Farrohi, F. K.
1288 Farrohi, K.
10635 Farrohi, K.
4666 Farrugia, G.
9616 Farstad, L.
3762 Fasanj, M.
677 Fasoli, U.
4827 Fassi, R. J.
4231 Fassbender, C. A.
3441 Fast, P. G.
9232 Fastovskaya, A. Ja.
4639 Fateeva, L. I.
2983 Fateeva, M. V.
6630 Fathy, S.
9116 Fathy, S. A.
3130 Fattal, B.
6709 Fattal, B.
9201 Fattal, B.
3545 Fatunla, T.
6544 Faulkner, D. J.
4351 Faulkner, M. J.
5251 Faulkner, S. V.
3467 Fauquet, C.
6220 Fauquet, C.
8746 Fauquet, C.
10580 Faur, Y. C.
721 Faust, M. A.
6671 Favero, M. S.
2278 Favre, S.
591 Fawcett, P. A.
9079 Fazakerley, G. V.
10535 Fazeli, A.
10536 Fazeli, A.
7512 Feaz, Calvo, J. L.
7495 Feachem, R. G.
10518 Fearn, T.
3250 Fedenko, E. P.
9437 Feder, J.
1576 Fedorko, J.
2834 Fedorov, V. N.
9057 Fedorova, G. B.
9114 Fedorova, G. B.
3087 Fedorova, N. V.
6668 Fedorova, N. V.
367 Fedotina, V. L.
1098 Fedotina, V. L.
2792 Fedurkina, N. V.
6991 Feeley, J. C.
10585 Feeley, J. C.
2362 Fehér, G.
1822 Fehlaber, K.
9672 Fehlaber, K.
375 Fehrmann, H.
2001 Fehrmann, H.
558 Feigh, R. D.
565 Feigin, A. M.
4842 Feigin, T. S.
1301 Feigl, P.
10187 Feindt, E.
1677 Feingold, D. S.
4112 Feingold, D. S.
5644 Feingold, D. S.
776 Feist, H.
10583 Feist, H.
4198 Feix, G.
4639 Fejgin, A. M.
8237 Felding, E.
5357 Feldman, A. W.
5683 Feldman, R. I.
1308 Feldman, Yu. M.
6747 Feldmeier, H.
731 Feldon, P. G.
10206 Feldsine, P. T.
176 Feldstein, F.
7445 Feline, T. C.
18 Felix, A.
1661 Felix, A.
10585 Felker, M.
5334 Feltz, H.
8353 Fencil, Z.
21 Feniksova, R. V.
9245 Fenlon, D.
5179 Fenlon, D. R.
6859 Fenn, P.
983 Fennell, D. I.
7814 Fennell, D. I.
9709 Fennel, F. J.
1078 Fenwick, H. S.
1127 Fenwick, H. S.
7580 Feo, M.
2389 Ferari, E.
7072 Ferezou, J. -P.
4933 Ferguson, I. R.
10074 Ferguson, J. A.
7113 Ferguson, J. D.
5314 Ferguson, J. E.
4925 Ferguson, J. K.
765 Ferguson, P.
5205 Fernandes, F.
5557 Fernandes, P. S.
6500 Fernandes, P. S.
7327 Fernandes, P. S.
8195 Fernandez, H.
3453 Fernandez, P. B.
5123 Fernandez-Gomez, M. E.
4795 Fernando, Q.
7324 Fernier, D. S.
4259 Ferrando, R.
7062 Ferrando, R.
9097 Ferrarri, P.
7942 Ferraris, L.
1156 Ferrata, M.
297 Ferree, D. C.
10471 Ferreira da Eira, A.
5032 Ferrell, R. E.
552 Ferretti, J. J.
10205 Ferris, B. K.
2059 Ferris, H.
3608 Ferrell, G. T.
9817 Festic, H.
2050 Feter, R. B.
7563 Few, G. A.
10222 Fewkes, R. C. J.
8361 Fhaolain, I. N.
6423 Fiasson, J. -L.
7038 Fidgeon, S.
756 Fiechter, A.
8941 Fiechter, A.
9322 Fiechter, A.
10644 Fiechter, A.
2057 Fiedler, F.
2165 Field, C. R.
9576 Field, R. A.
1550 Fields, N. D.
6805 Fields, N. D.
7547 Fields, N. D.
10574 Fieldsteel, A. H.
8571 Figge, A.
1347 Figueroa Casas, J. C.
1228 Fiquerska, E. H.
7596 Fikhte, B. A.
9257 Fikhte, B. A.
10531 Fikhte, B. A.
10274 Filan, J. J.
6362 Filani, G. A.
8345 Filbert, A. M.
5457 Filer, T. H. Jr.
1727 Filger, U.
9537 Filho, A. M.
5725 Filicheva, V. A.
7865 Filin-Koldakov, B. V.
2859 Filipp, Z.
4406 Filippov, A. V.
4407 Filippov, A. V.
7930 Filippov, A. V.
3179 Filippov, V. A.
6626 Filippov, V. A.
7566 Filippov, V. A.

Author index

9127 Filippov,V.A. (Contd)
 9140 Filippova,A.I.
 7357 Filippova,S.N.
 2717 Filippova,T.N.
 4797 Filteau,M.-J.
 487 Filloy,L.
 462 Filppi,J.A.
 7503 Finance,C.
 10483 Finance,C.
 4377 Finch,H.C.
 9287 Finch,R.G.
 5873 Fincham,J.R.
 1627 Findley,M.E.
 1868 Findley,W.R.
 5322 Findley,W.R.
 7731 Finegold,S.M.
 2944 Finegold,S.M.
 3010 Finegold,S.M.
 3992 Finegold,S.M.
 10647 Finegold,S.M.
 10185 Fingal,C.M.
 3151 Finger,S.M.
 247 Finkelstein,R.A.
 7099 Finkelstein,R.A.
 2897 Finkelstein,Z.I.
 121 Finkler,B.J.
 3974 Finklea,P.J.
 6557 Finland,M.
 6565 Finland,M.
 9523 Finlay,J.
 2098 Finn,G.R.
 9502 Finn,R.K.
 1566 Finn,V.F.
 1558 Finne,G.
 6540 Finnie,R.E.
 6688 Finstein,M.S.
 5283 Firillo,E.
 9666 Firstenberg-Eden,R.
 7893 Firsullo,S.
 1980 Fischbeck,G.
 650 Fischer,A.
 1227 Fischer,F.C.
 259 Fischer,H.U.
 5306 Fischer,H.U.
 8713 Fischer,H.U.
 4987 Fisel,S.
 8466 Fisenberg,W.V.
 7301 Fish,N.A.
 9012 Fisher,D.A.
 5572 Fisher,J.F.
 9639 Fisher,L.J.
 4780 Fisher,P.B.
 609 Fishman,V.M.
 7357 Fishman,V.M.
 8110 Fishman,V.M.
 2050 Fitch,L.B.
 6855 Fitt,P.S.
 2855 Fitzgerald,I.W.
 6979 Fitzgerald,J.W.
 9363 Fitzgerald,J.W.
 7137 Flack,N.J.
 6109 Flame,F.
 7856 Flamagne,P.
 7792 Lambert,C.M.F.
 1675 Flammang,T.
 7390 Flanagan,D.R.
 5185 Flanagan,P.W.
 5186 Flanagan,P.W.
 4262 Flannigan,B.
 10023 Flannigan,B.
 9514 Flanzyc,C.
 9514 Flanzyc,M.
 5078 Flashner,M.
 6119 Lasshoff,F.-G.
 3055 Flatau,G.N.
 2709 Flax,G.
 4808 Fleck,W.
 9629 Fleck,W.
 10375 Fleck,W.F.
 1444 Fleming,R.W.
 10616 Fleming,W.H.
 6276 Flemming,M.
 5984 Fles,M.
 2877 Fleschner,M.D.
 4391 Fletcher,J.T.
 8744 Fletcher,R.A.
 5774 Flett,D.B.
 6912 Flett,S.F.
 10267 Fleurette,J.
 6005 Flickinger,M.C.
 4880 Fliermans,C.B.
 4881 Fliermans,C.B.
 1293 Flinton,L.J.
 4887 Floccia,M.
 4036 Flood,M.E.
 1855 Florence,E.R.
 9513 Florenzano,G.
 3269 Floss,H.G.
 776 Flossmann,K.-D.
 10583 Flossmann,K.-D.
 3815 Flournoy,D.J.
 10547 Flournoy,D.J.
 3947 Flowers,R.S.
 8287 Flowers,R.S.
 9186 Flowers,R.S.
 4001 Flowers,T.H.
 4869 Floyd,R.
 6982 Floyd,S.
 6774 Fluck,E.R.
 5292 Fluere,F.S.
 2054 Fluhler,H.
 7252 Flynn,N.
 10623 Flynt,P.M.
 7264 Focht,D.D.
 5886 Foda,M.S.
 6723 Fodor,F.
 4067 Fogarty,W.M.
 5041 Fogarty,W.M.
 3533 Foglein,F.J.
 9525 Foglietti,M.-J.
 6352 Fokkema,N.J.
 2930 Foks,H.
 9868 Foks,H.
 10134 Foks,H.
 3680 Foks,P.V.
 5406 Foley,D.C.
 7035 Foley,J.A.
 2390 Folger,E.C.
 2107 Folke,L.E.A.
 1421 Foltz,R.L.
 1423 Foltz,R.L.
 3085 Fomina,A.N.
 4636 Fomina,I.P.
 5684 Fomina,I.P.
 9100 Fomina,I.P.
 1727 Fonden,R.
 9832 Fong,J.C.
 652 Fonin,L.A.
 6473 Fontaine,T.D.
 3030 Fontana,G.
 33 Fontanges,R.
 9637 Fontenot,J.P.
 3646 Foo,E.L.
 2031 Foore,S.R.
 4310 Foore,S.R.
 5212 Forbes,L.
 9776 Forcher,S.
 3089 Ford,A.
 6666 Ford,A.
 716 Ford,H.W.
 1867 Ford,R.E.
 76 Ford,S.H.
 4740 Forgan-Smith,W.R.
 8405 Forge,A.
 8406 Forge,A.
 8407 Forge,A.
 7759 Forge,M.
 580 Forgione,A.
 5292 Forina,L.G.
 10216 Formiga,L.C.D.
 9826 Forner,J.B.
 9613 Forney,L.J.
 6782 Forsberg,C.W.
 9253 Forschner,E.
 2562 Forschner,E.
 7304 Forsgren,A.
 3511 Forster,R.L.S.
 4151 Forsthofer,J.
 4373 Forsyth,F.R.
 766 Forsyth,M.P.
 476 Forsyth,T.J.
 2323 Fortier,R.
 2324 Fortier,R.
 227 Fortlager,R.J.
 6317 Fortlager,R.J.
 10605 Fortney,K.F.
 6542 Fos,D.
 9936 Fossati,A.
 1576 Fossieck,B.E.-Jr.
 4123 Foster,J.
 8460 Foster,J.F.
 9585 Foster,J.F.
 2696 Foster,J.H.
 5137 Foster,J.W.
 175 Foster,R.
 4239 Foster,R.D.
 7999 Foster,W.R.
 6955 Fouad,M.
 9112 Fouad,M.
 7106 Foucault,B.
 3547 Fouillaux,G.
 9926 Fouilloux,G.
 10088 Fouilly,E.
 1149 Fourcaud,A.
 3400 Fournauo,J.
 6371 Fournet,J.
 7624 Fowler,A.V.
 6073 Fowler,J.L.
 8460 Fowler,J.L.
 9574 Fowler,J.L.
 9585 Fowler,J.L.
 5208 Fox,C.W.
 4894 Fox,D.E.-R.
 812 Fox,J.J.
 9649 Fox,J.J.
 7572 Fox,J.L.
 7623 Fox,J.L.
 3316 Foxe,M.S.
 7119 Foxe,M.J.
 6643 Fradkova,T.A.
 10378 Fradkova,T.A.
 902 Francis,A.J.
 9178 Francis,C.W.
 7459 Francis,J.
 4267 Francis,S.K.
 3207 Franck,R.I.B.
 6227 Franck,R.I.B.
 1720 Frangne,R.
 1721 Frangne,R.
 1800 Frank,H.K.
 5261 Frank,H.K.
 8571 Frank,H.K.
 4267 Frank,J.A.
 4409 Frank,J.A.
 2549 Frank,J.F.
 6884 Frank,R.
 9304 Franke,J.
 3373 Franke,W.C.
 7533 Franklin,M.
 3346 Franklin,R.M.
 7816 Franz,A.O.-Jr.
 6474 Franz,C.
 4402 Fraser,T.W.
 3394 Frasunkiewicz,B.
 3406 Frasunkiewicz,B.
 7205 Frater,C.A.
 1817 Frauch,P.
 9555 Fravel,D.R.
 8252 Frazer,J.
 4112 Frazier,R.

Author index

- 8541 Frede, W.
 3325 Fredericks, P. M.
 2696 Frederiksen, R. A.
 3575 Frederiksen, R. A.
 3150 Fredrickson, A. G.
 5854 Freeman, B. A.
 8760 Freeman, J. A.
 6601 Freeman, K. B.
 929 Freeman, L. R.
 1607 Freeman, R. B.
 6488 Freeman, R. F.
 8745 Freeman, T. E.
 7451 Freer, A. A.
 5052 Freese, E.
 4929 Freier, P. A.
 588 Freimer, E. H.
 8371 Freitag, L. C.
 3056 Freitas, Y. M.
 2899 French, D. W.
 4544 French, D. W.
 4546 French, D. W.
 10029 French, D. W.
 5526 French, G. L.
 8281 French, G. L.
 9460 French, J. C.
 415 French, J. R.
 1513 French, M. L. V.
 1514 French, M. L. V.
 4849 French, M. L. V.
 7928 French, N.
 9840 French, W. J.
 6325 French, W. M.
 9908 Fres, N.
 10140 Fretton, J.
 7024 Fretton, R.
 10425 Freudenstein, H.
 6548 Freundlich, L. F.
 5847 Freundt, E. A.
 3379 Frey, A. L.
 1409 Frey, C. A.
 7199 Frey, K. J.
 3244 Frey, M.
 2833 Freyer, K.
 3605 Freyer, K.
 6285 Fribourg, C. E.
 7067 Frick, H.
 9158 Fricker, H.
 5361 Fridlund, P. R.
 2434 Fridlyand, I. G.
 8984 Fridman, A. L.
 7430 Friebe, T. E.
 9752 Fried, P. M.
 800 Friedman, H.
 10540 Friedman, H.
 76 Friedman, H. C.
 6288 Friends, J.
 6810 Friends, J.
 407 Fries, N.
 1679 Friis, J.
 604 Friis-Moller, A.
 7892 Frisullo, S.
 9806 Frisullo, S.
 10397 Fritz, H.
 1808 Fritz, W.
 7059 Fritz, W.
 9734 Froehlich, J. L.
 7656 Frohner, C.
 6849 Froholm, L. O.
 4773 Frolova, L. Yu.
 875 Frolova, M. A.
 2524 Frolova, M. A.
 8110 Frolova, V. I.
 2631 Fromageot, P.
 5334 Fromm, R.
 4120 Fromme, I.
 5229 Froning, G. W.
 3338 Fronza, G.
 1747 Froschner, E.
 1977 Frosheiser, F. I.
 7108 Frosheiser, F. I.
 8599 Frosheiser, F. I. (Contd)
 1724 Frost, A.
 3540 Frossard, P.
 2114 Frost, B. M.
 5731 Frost, B. M.
 4404 Frost, M. C.
 7169 Frost, R. R.
 6281 Frowd, J. A.
 6073 Fruin, J. T.
 9532 Fruin, J. T.
 9574 Fruin, J. T.
 9420 Fry, J. C.
 952 Fry, J. L.
 1767 Fry, J. L.
 564 Fry, W.
 7203 Fry, W. E.
 10300 Frydman, N.
 156 Fryer, T. F.
 917 Fryer, T. F.
 918 Fryer, T. F.
 7733 Fryer, T. F.
 1428 Fu, K. P.
 1429 Fu, K. P.
 3237 Fu, T. T.
 3572 Fuchs, A.
 10277 Fuchs, P. C.
 9240 Fuchs-Schmuck, A.
 4975 Fuerst, R.
 5659 Fugono, T.
 4796 Fuhrer, H.
 3278 Fujii, S.
 5723 Fujii, A.
 9128 Fujii, A.
 10153 Fujii, A.
 70 Fujii, M.
 71 Fujii, M.
 70 Fujii, T.
 71 Fujii, T.
 186 Fujii, T.
 934 Fujii, T.
 5723 Fujii, T.
 8136 Fujii, T.
 8343 Fujimaki, M.
 2539 Fujimoto, M.
 3275 Fujioka, K.
 9392 Fujioka, K.
 7453 Fujisawa, K.
 7454 Fujisawa, K.
 4752 Fujisawa, Y.
 5648 Fujisawa, Y.
 4142 Fujita, H.
 815 Fujita, I.
 3844 Fujita, M.
 7222 Fujita, S.
 758 Fujita, T.
 1223 Fujita, T.
 1754 Fujita, Y.
 9160 Fujitake, T.
 5090 Fujiwara, K.
 7586 Fukada, M.
 2197 Fukada, S.
 5661 Fukada, S.
 8930 Fukami, M.
 5466 Fukazawa, K.
 2556 Fukazawa, S.
 6088 Fukazawa, Y.
 4751 Fukita, T.
 8427 Fukuda, D.
 829 Fukuda, D. S.
 8426 Fukuda, D. S.
 4088 Fukuda, M. N.
 8326 Fukuda, N.
 7504 Fukui, G. M.
 4060 Fukui, S.
 4061 Fukui, S.
 5521 Fukui, S.
 5914 Fukui, S.
 5917 Fukui, S.
 5957 Fukui, S.
 6914 Fukui, S.
 9361 Fukui, S. (Contd)
 9406 Fukui, S.
 9407 Fukui, S.
 10102 Fukui, S.
 4143 Fukui, T.
 6588 Fukumura, M.
 2093 Fukuoka, S.
 4737 Fukushima, M.
 7641 Fukushima, M.
 3498 Fukutomi, M.
 523 Fukuyasu, H.
 4806 Fukuyasu, T.
 7830 Fuleki, T.
 9261 Fulghum, R. S.
 5802 Fulkerson, C. C.
 7123 Fullerton, R. A.
 8637 Fullerton, R. A.
 4229 Fulton, L. A.
 7845 Fumagalli, D.
 6889 Funakoshi, I.
 3075 Funayama, S.
 10360 Funayama, S.
 10401 Funayama, S.
 7931 Funch, U. C.
 8329 Funder-Nielsen, T. D.
 1827 Fung, D. Y. C.
 1828 Fung, D. Y. C.
 2650 Fung, D. Y. C.
 6771 Fung, D. Y. C.
 7094 Fung, D. Y. C.
 2839 Funk, A.
 6383 Funk, A.
 10398 Funk, A.
 1391 Furata, E.
 2567 Furayama, S.
 5581 Furer, N. M.
 188 Furfari, S. A.
 1407 Furihata, K.
 2283 Furminger, I. G. S.
 2284 Furminger, I. G. S.
 7507 Furtado, S. E. J.
 3231 Furui, M.
 4824 Furukawa, M.
 5718 Furukawa, Y.
 687 Furuki, M.
 3860 Furuki, M.
 7443 Furumai, T.
 4563 Furusaka, C.
 7254 Furusaka, C.
 10191 Furusawa, E.
 8624 Furusawa, I.
 70 Furusho, T.
 71 Furusho, T.
 7520 Furuta, K.
 6623 Furuya, A.
 7675 Furuya, A.
 9448 Furuya, A.
 8931 Furiyeva, A. V.
 1392 Furuta, R.
 9427 Fuselier, C. O.
 8045 Fusey, P.
 5122 Fusk, J.
 5996 Fusk, J.
 5999 Fusk, J.
 5996 Fuskova, A.
 4228 Fustier, P.
 3614 Futrell, M. C.
 5818 Fuutai, N.
 8930 Fuwa, K.
 818 Gaafar, H. A.
 3991 Gaafar, H. A.
 3683 Gaafar, M. M.
 9944 Gaard, G.
 5713 Gaber, B. P.
 8984 Gabitov, F. A.
 6995 Gabler, F. R.
 7055 Gabors, M.
 8933 Gabra, G. G.
 198 Gabriel, G. N.

Author index

1602	Gabridge, M. G.	7388	Gangadharam, P. R. J.	4385	Gates, L. F.
2811	Gabrielson, R. L.	10132	Gangadharam, P. R. J.	8997	Gatkiewicz, A.
8837	Gabrielson, R. L.	10133	Gangadharam, P. R. J.	10412	Gattegno, D.
1725	Gabrio, T.	1587	Gangarosa, E. J.	4266	Gaucher, G. M.
4793	Gachon, P.	6071	Gangarosa, E. J.	7071	Gaucher, G. M.
808	Gackowska, L.	7013	Gangarosa, E. J.	7532	Gaudry, M.
8315	Gackowska, L.	6421	Gangawane, L. V.	5493	Gault, R. R.
5662	Gadebusch, H. H.	9838	Gangawane, L. V.	8029	Gault, R. R.
9277	Gaden, W.	2352	Gangel, G.	5496	Gaur, A. C.
413	Gadgil, P. D.	382	Gangopadhyay, S.	6781	Gaur, Y. D.
5994	Gaffar, S. A.	402	Gangopadhyay, S.	5623	Gause, G. F.
7077	Gaffin, S. L.	1016	Gangopadhyay, S.	4673	Gaustad, J. W.
1540	Gagarina, V. A.	1034	Gangopadhyay, S.	3796	Gauthier, M. J.
10549	Gagnet, S. M.	2683	Gangopadhyay, S.	5921	Gautheron, D. C.
9751	Gagnon, C.	8976	Ganguli, B. N.	7611	Gautheron, D. C.
6319	Gahan, P. B.	2608	Ganguli, N. C.	3055	Gauthier, M. J.
7735	Gahlot, D. P.	3649	Ganguli, S.	9057	Gauze, G. F.
8510	Gaiculescu, S.	2258	Ganguly, A. K.	4720	Gavan, T. L.
6097	Gaillard, B. D. E.	6646	Ganguly, A. K.	10277	Gavan, T. L.
5716	Gairola, C.	2710	Ganguly, B.	10559	Gavan, T. L.
4686	Galabov, P.	6924	Gannon, F.	5771	Gavilanes, M.
1239	Galabov, A. S.	7484	Gannon, J. J.	3915	Gaya, H.
8998	Galabov, A. S.	5551	Ganowiak, Z.	10595	Gaydos, C. A.
8377	Galaev, A.	26	Ganoza, M. C.	496	Gayot, G.
8378	Galaev, I. Yu	1585	Gantenbein, D.	2813	Gaztonyi, M.
5053	Galas, E.	10241	Ganul, V. L.	2814	Gaztonyi, M.
3834	Galazka, A.	6659	Ganzalez, S.	6780	Geary, I.
5374	Galbiati, C.	1753	Gaona, H.	7907	Geary, J. R.
6489	Gale, E. F.	4297	Gaponenko, N. I.	1817	Gebhart, J.
7335	Gale, G. R.	9273	Garaci, E.	2299	Gebler, J.
7061	Galea, V.	9424	Garaev, M. M.	9845	Gebre, S. K.
2952	Galgiani, J. N.	10153	Garascia, R. J.	4903	Gedalia, I.
487	Galindo, E.	10101	Garbalinsky, V. A.	5720	Geddes, A. J.
2389	Galizzi, A.	8836	Garber, R. H.	230	Gedek, B. R.
5096	Galizzi, A.	9227	Garcia de la Banda, I.	231	Gedek, B. R.
39	Galka, M.	3074	Garcia Rodriguez, J. A.	143	Gedek, W.
8385	Galkina, T. A.	3074	Garcia Sanchez, J. E.	4192	Gedek, W.
452	Gallacher, A.	3643	Garcia, J. L.	1557	Gee, C. L.
10573	Gallagher, J.	8891	Garcia, J. L.	1968	Geeson, J. D.
8531	Galli, R.	10042	Garcia, J. L.	835	Gefters, M. L.
8601	Gallian, J.	5081	Garcia-Jurado, O.	5227	Gehriger, C.
3973	Gallien, R.	8672	Gardner, J. M.	329	Geiger, J. P.
5923	Gallili, G. E.	4827	Gardner, W. G.	4921	Geigert, J.
3088	Galliova, J.	2161	Gareishina, A. Z.	1771	Geister, R.
6270	Gallitelli, D.	2924	Garelov, O. P.	3746	Gel'Perin, N. I.
9097	Gallo, G. G.	5844	Garevich, Yu. A.	7502	Gel, A. A.
7955	Galon, E.	10247	Garg, D. K.	3990	Geller, R. C.
7565	Galpin, J. V.	5569	Garg, D. M. L.	4864	Gellman, I.
5140	Galsworthy, S. B.	322	Garg, I. D.	4758	Gelzer, J.
2632	Galtier, P.	1026	Garg, I. D.	5418	Gemawat, P. D.
3878	Galtseva, G. V.	3477	Garg, I. D.	6396	Gendle, P.
7788	Galvano, G.	7942	Garibaldia, A.	3521	Genereux, H.
9873	Galvas, M.	9854	Garibaldia, A.	6082	Genigeorgis, C. A.
4301	Galvez, G. E.	3087	Garin, N. S.	5832	Genner, C.
6355	Galvez, G. E.	6668	Garin, N. S.	2472	Gennis, L. S.
7990	Galvez, G. E.	10072	Garnas, R. L.	3315	Gennis, R. B.
8603	Galway, D. A.	6557	Garner, C.	677	Genon, G.
161	Galzy, P.	6565	Garner, C.	2783	Genter, C. F.
426	Galzy, P.	433	Garren, K. H.	2353	Genth, H.
1178	Galzy, P.	1852	Garren, K. H.	10144	Genther, C. S.
3437	Galzy, P.	6191	Garren, K. H.	8074	Gentile, J. M.
4203	Galzy, P.	3856	Garrett, M. T. Jr.	9537	Gentilin, J. A.
7759	Galzy, P.	5988	Garrett, R. A.	10184	Gentry, G. A.
1562	Gam, K.	5366	Garrett, R. G.	4295	Genyte, L.
4997	Gaman, P. M.	5772	Garrido-Calderon, N.	9726	Geoffroy, C.
2451	Gambacorta, A.	3350	Garson, M. J.	9981	Geoghegan, M. J.
6957	Gambacorta, A.	2123	Gartner, L.	4095	George, A. M.
9122	Gambetta, R.	2289	Garttner, E.	775	George, E. A.
7263	Gamble, T. N.	765	Garza, P.	9363	George, J. R.
341	Gambogi, P.	9002	Gasco, A.	5370	George, M.
1012	Gambogi, P.	7548	Gashinskij, V. V.	8831	George, M.
3787	Games, D. E.	6110	Gaspari, F.	1607	George, S. D.
538	Gammon, R. A.	6115	Gaspari, F.	8774	Georgescu, M. M.
6300	Ganacharya, N. M.	10239	Gassin, M.	10179	Georgiades, J. A.
5519	Ganbarov, K. G.	10240	Gassin, M.	6835	Georgopapadakou, N.
1214	Ganczarski, A.	5846	Gastambide-Ordier, M.	1038	Gera, S. D.
2017	Gandy, D. G.	2893	Gasuins, M. H.	7646	Gerasimene, G. B.
8351	Ganelin, V. L.	396	Gasztonyi, M.	4888	Gerasimenko, D. D.
1095	Ganeva, G.	886	Gatenbeck, S.	1375	Gerasimova, T. M.
4452	Ganeva, G.	8569	Gatenbeck, S.	1378	Gerasimova, T. M.

Author index

- 1379 Gerasimova, T. M. (Contd)
3047 Gerasimova, T. M.
3051 Gerasimova, T. M.
3052 Gerasimova, T. M.
742 Gerats, G. E.
8259 Gerats, G. E.
725 Gerba, C. P.
2302 Gerba, C. P.
3108 Gerba, C. P.
3896 Gerba, C. P.
3900 Gerba, C. P.
6716 Gerba, C. P.
8243 Gerba, C. P.
9224 Gerba, C. P.
10269 Eerdings, D. N.
5016 Gerhardt, P.
5641 Gerhardt, P.
184 Gerigk, K.
8550 Gerigk, K.
3222 Gerlach, D.
10277 Gerlach, E. H.
7167 Gerlach, W.
7998 Gerlach, W.
8753 Gerlach, W.
7184 Gerlachova, A.
7139 Germain, E.
6576 Germain, G.
5681 Geros, S. D.
6798 Gerrettson-Cornell, L.
7260 Gerrettson-Cornell, L.
8855 Gerrettson-Cornell, L.
8204 Gersbrandy, J. L. F.
777 Gershan, M.
6788 Gershan, M.
7574 Gershan, M.
1231 Gershon, H.
422 Gersonde, M.
5576 Gerullis, G.
5629 Geslin, P.
9230 Geslin, P.
4077 Gething, M. - J. H.
4078 Gething, M. - J. H.
2143 Ghabgharan, F.
8921 Ghaflar, A.
5154 Ghahremani, B.
5043 Ghalil, Y.
213 Ghanekar, A. S.
214 Ghanekar, A. S.
9970 Ghaurias, S. C.
8658 Gheorghies, C.
665 Gheorghiu, M.
5085 Ghewander, M. P.
7614 Ghewander, M. P.
3325 Chilezan, I.
1161 Ghiorse, W. C.
6300 Ghodakar, B. N.
9937 Ghodbane, A.
9964 Ghodbane, A.
6261 Gholson, R. K.
7839 Ghosal, S.
7992 Ghosal, S.
796 Ghose, T. K.
4034 Ghose, T. K.
5162 Ghose, T. K.
9443 Ghose, T. K.
10644 Ghose, T. K.
8024 Ghosh, B. S.
8645 Ghosh, J. J.
6138 Ghosh, M. K.
5891 Ghosh, P.
316 Ghosh, S. K.
5353 Ghosh, S. K.
5355 Ghosh, S. K.
5372 Ghosh, S. K.
5379 Ghosh, S. K.
5418 Ghosh, S. K.
5464 Ghosh, S. K.
5869 Ghosh, S. N.
5891 Ghosh, T. K.
652 Ghumburidze, T. A.
9795 Giannotti, J.
6110 Giardini, A.
6112 Giardini, A.
6115 Giardini, A.
2343 Gibbs, M.
2076 Gibson, A. H.
2884 Gibson, A. H.
5872 Gibson, A. H.
8027 Gibson, A. H.
1188 Gibson, D. T.
7666 Gibson, D. T.
4695 Gibson, G. L.
9013 Gibson, G. L.
7663 Gibson, J. L.
4941 Gibson, K. J.
10012 Gibson, L. P.
8607 Gibson, P. B.
1036 Gibson, R. W.
6226 Gibson, R. W.
114 Gibson, W. L.
4990 Giddings, J. C.
4133 Gieck, A.
970 Gierhart, D. L.
7354 Giermann, H. J.
4882 Giesy, J. P. - Jr.
8047 Giffin, L. F.
3892 Gifford, G. E.
4606 Gifford, G. E.
7892 Gigante, F.
9806 Gigante, F.
3954 Giglio, M.
4349 Giha, O. H.
4524 Giha, O. H.
1505 Gilbert, J.
3939 Gilbert, P.
2302 Gilbert, R. G.
2322 Gilbert, R. G.
4608 Gilbert, R. G.
4275 Gilbert, R. J.
7721 Gilbert, R. J.
7775 Gilbert, R. J.
10010 Gilbertson, R. L.
3788 Gilbertson, T. J.
136 Gilchrist, J. E.
1650 Gilchrist, P. S.
9648 Gildberg, A.
5018 Gilke, N. R.
4208 Gill, C. O.
6006 Gill, C. O.
8504 Gill, C. O.
8725 Gill, D. L.
3510 Gill, H. S.
3526 Gill, J. S.
2784 Gill, K. S.
2709 Gillaspie, A. G. - Jr.
4478 Gillaspie, A. G. - Jr.
4932 Gillenwater, J. Y.
530 Giller, S. A.
4773 Giller, S. A.
6586 Giller, S. A.
9855 Gillespie, T. J.
1910 Gilliam, M. S.
4169 Gilliland, S. E.
9274 Gilliland, S. E.
7877 Gillis, E.
4696 Gillis, J. R.
5450 Gillman, L. S.
2935 Gilmore, O. J. A.
9175 Gilmore, R. A.
6928 Gilpin, M. L.
8580 Gimenez, D. F.
788 Gindrat, D.
135 Ginn, R. E.
5051 Gino, M.
7975 Giovannetti, M.
6542 Giraldez, J.
3011 Girard, A. E.
4685 Girard, M.
9703 Girgis, A. N.
4437 Giridhar, N.
2258 Girjavallabhan, V. M.
3864 Girin, V. N.
637 Girotra, N. N.
4206 Giroux, R. N.
2646 Girschovich, C. S.
6500 Gita, P.
769 Gizet, A.
3043 Glabski, T.
3044 Glabski, T.
9131 Gladkikh, E. G.
10361 Gladkikh, E. G.
10362 Gladkikh, E. G.
2282 Gladkov, V. G.
2407 Glasby, J. S.
2124 Glasgow, L. A.
139 Glass, L.
6314 Glassers, P.
6452 Glathe, H.
1820 Glatz, B. A.
9828 Clavas, M.
7549 Glazer, A. N.
4932 Gleason, C. H.
1637 Gleason, F. H.
8122 Gleason, J. G.
8212 Gleason, J. G.
7300 Gledel, J.
579 Gleissner, M. R.
2176 Gleissner, M. R. B.
2494 Glemzha, A. A.
3313 Glemzha, A. A.
7646 Glemzha, A. A.
5231 Glender, W.
7607 Glenn, R.
9051 Glew, R. H.
4830 Glickson, J. D.
1887 Gliemeroth, G.
4901 Gliniecki, F.
5158 Global, L. I.
5634 Glotzbecker, C.
5642 Glotzbecker, C.
10302 Glotzbecker, C.
3394 Glowacki, M.
6423 Gluchoff, Fiasson, K.
8941 Gmunder, F.
5837 Gnarp, H.
8149 Gnarp, H.
2336 Gnot, S.
9162 Goch, H.
6537 Gochnauer, T. A.
2476 Gocho, S.
8173 Godany, A.
2823 Godbole, G. M.
8611 Godbole, G. M.
4358 Goddard, M. V.
5486 Godrillon, G.
9591 Godwin, G. J.
490 Goebel, P.
640 Goeddel, L. W.
10165 Goel, A. K.
1890 Goel, L. B.
7135 Goel, L. B.
1070 Goel, S. K.
1820 Goepfert, J. M.
6381 Gogala, N.
4039 Gogel, G. E.
1215 Goghari, M. H.
2918 Gogoleva, E. V.
7631 Gogotov, I. N.
9422 Gogotov, I. N.
2904 Gogotova, G. I.
4138 Gohbara, M.
9712 Gohbara, M.
1933 Goheen, A. C.
3493 Goheen, A. C.
7152 Goheen, A. C.
6367 Gohmann, P.
8867 Goksoyr, J.
9242 Gola, J.
3976 Goldberg, R. L.
10013 Gold, R. E.

Author index

1209 Goldberg, A. M.
 3878 Goldberg, A. M.
 5900 Goldberg, I.
 6541 Goldberg, L.
 7058 Goldblatt, L. A.
 9903 Golden, J.
 6950 Golding, B. T.
 3700 Golding, R. M.
 2877 Goldman, C. R.
 3915 Goldman, J. M.
 4966 Goldmann, D. A.
 10392 Goldmann, D. A.
 9252 Goldmintz, D.
 9588 Goldmintz, D.
 6027 Goldner, S.
 10471 Goldoni, J. S.
 6775 Goldschmidt, E. P.
 1300 Goldshtein, V. L.
 1421 Goldstein, A. W.
 5689 Goldstein, A. W.
 8096 Goldstein, B. P.
 8097 Goldstein, B. P.
 3681 Goldstein, M. M.
 4780 Goldstein, N. I.
 9137 Goldstein, W. L.
 4902 Goldstein-Wifchitz, B.
 530 Golender, V. E.
 2897 Golovleva, L. A.
 3816 Golik, J.
 4178 Golin, G.
 4176 Goll, M.
 6895 Gollakota, K. G.
 8977 Gollakota, K. G.
 8674 Gollifer, D. E.
 3569 Golocz, L.
 993 Golovatyuk, A. L.
 32 Golovina, I. G.
 2897 Golovlev, E. L.
 3243 Golovleva, L. A.
 5519 Golovleva, L. A.
 7706 Golovleva, L. A.
 7842 Golshmid, V. K.
 7458 Golubeva, V. K.
 10378 Golubkova, L. S.
 3880 Gluecke, C. G.
 10145 Gomez, R.
 2217 Gomoiu, I.
 3283 Gonchar, N. A.
 2428 Goncharova, I. A.
 2640 Goncharova, V. I.
 695 Goncharuk, E. I.
 3864 Goncharuk, E. I.
 9611 Gong, C. S.
 8663 Gonzales, R.
 7515 Gonzalez Rovira, J.
 888 Gonzalez, A. G.
 2757 Gonzalez, M. A.
 2758 Gonzalez, M. A.
 362 Gonzalez, R. H.
 8038 Gonzalez-Eguarte, D.
 9484 Good, B. H.
 6312 Goodenough, P. W.
 6322 Goodenough, P. W.
 3175 Goodfellow, M.
 7889 Goodfellow, M.
 9306 Goodfellow, M.
 7755 Goodhead, K.
 6304 Gooding, G. V. Jr.
 9151 Goodley, P. C.
 9152 Goodley, P. C.
 4434 Goodliffer, J. P.
 5302 Goodman, R. M.
 9763 Goodman, R. M.
 8032 Goodman, R. N.
 8033 Goodman, R. N.
 8218 Goodrich, R. R. Jr.
 5656 Goodwin, C. S.
 4132 Goodwin, T. W.
 7679 Goodwin, T. W.
 6870 Goolsby, K. M.
 129 Goos, R. D.
 6513 Goossens, F.
 6194 Gopal, G. R.
 5919 Gopalrishnan, K. S.
 872 Gopinathan, K. P.
 891 Goral, V. M.
 7545 Gorbach, S. L.
 5597 Gorbunov, V. I.
 5597 Gorbunova, S. M.
 4880 Gordon, R. W.
 1549 Gordienko, A. P.
 4834 Gordienko, N. M.
 7238 Gordon, A. G.
 3915 Gordon, A. M.
 1775 Gordon, C. H.
 5321 Gordon, D. T.
 1657 Gordon, G. L.
 6056 Gordon, J. F.
 8055 Gordon, N.
 7956 Gordon, P. L.
 3132 Gordon, R. C.
 4662 Gordon, R. C.
 5641 Gordon, R. C.
 4881 Gordon, R. W.
 4830 Gordon, S. L.
 3406 Goreckay, E.
 5476 Gorelova, O. P.
 10344 Gorf, W. F.
 981 Gorg, A.
 5175 Goring, T. E.
 3087 Gorlanova, A. A.
 10545 Gorman, G. W.
 6509 Gorman, S. P.
 9096 Gornaik, W.
 6123 Gornier, F.
 652 Gorneva, G. A.
 4913 Goroshkov, V. P.
 64 Gorshikova, R. P.
 6476 Gorska, I.
 3339 Gorst-Allman, C. P.
 9699 Gorst-Allman, C. P.
 1935 Gorter, G. J. M. A.
 3878 Goryachkina, T. Ya.
 1699 Gorzynska, J.
 7543 Gossden, P. E.
 6597 Goss, W. A.
 9093 Goss, W. A.
 9094 Goss, W. A.
 997 Goswami, R. N.
 1853 Goswami, R. N.
 7561 Goto, E.
 10563 Goto, E.
 10564 Goto, E.
 3515 Goto, M.
 8700 Goto, M.
 780 Goto, S.
 2177 Goto, S.
 5654 Goto, S.
 5952 Goto, S.
 7686 Goto, S.
 9477 Goto, S.
 9478 Goto, S.
 9383 Goto, T.
 8724 Gottschlich, E. C.
 1518 Gottardi, W.
 7424 Gottikh, B. P.
 6410 Gottlieb, D.
 7554 Gottschalk, G.
 7398 Gottstein, W. J.
 740 Gotze, U.
 3552 Gough, F. J.
 7755 Gough, T. A.
 329 Goujon, M.
 970 Gould, W. A.
 991 Goulden, M. L.
 2623 Goulden, M. L.
 7815 Goulden, M. L.
 9705 Goulden, M. L.
 3135 Goulder, R.
 3968 Gounot, A. M.
 5083 Gour, H. N.
 5084 Gour, H. N.
 4307 Gourley, C. O.
 8830 Gourley, C. O.
 5308 Gourrey, J. -P.
 10428 Govekar, L. G.
 9977 Govindarajan, T. S.
 1022 Govindaswami, C. V.
 309 Govindaswamy, C. V.
 2686 Govindu, H. C.
 4447 Govorova, G. F.
 4943 Gow, J. A.
 261 Gowanlock, D. H.
 3896 Goyal, S. M.
 6716 Goyal, S. M.
 9224 Goyal, S. M.
 7328 Goyer, S.
 236 Grab, G. N.
 3681 Graber, M. B.
 2305 Grabow, W. O. K.
 3098 Grabowski, G.
 729 Grace, M.
 9715 Gracenz, V. E. Jr.
 8436 Gracheva, Yu. P.
 101 Gracheva, I. M.
 1370 Gracheva, I. V.
 9091 Gracheva, I. V.
 7023 Gradel, A.
 2512 Gradusova, A. A.
 9146 Grafer, U.
 10394 Grafer, U.
 8717 Graham, D. C.
 1622 Graham, D. C. W.
 4448 Graham, J. H.
 9753 Graham, J. H.
 4776 Graham, K. C.
 5410 Graham, K. M.
 8901 Graham, P. H.
 4550 Graham, R. D.
 4553 Graham, R. D.
 949 Graham, S.
 784 Graham, S. O.
 3637 Graham, S. O.
 10884 Graikoski, J. T.
 6611 Grakovskaya, L. K.
 1326 Gramling, P. K.
 4794 Granatek, A. P.
 7398 Granatek, A. P.
 6766 Granato, P. A.
 7101 Grande, L. F.
 8842 Grande, L. F.
 3517 Granett, A. L.
 9831 Granett, A. L.
 1609 Granfors, K.
 8276 Grange, J. M.
 9879 Grangeon, M. -J.
 3492 Graniti, A.
 5646 Granstrom, S.
 3371 Grant, D. J. W.
 9615 Grant, D. W.
 9694 Grant, D. W.
 9695 Grant, D. W.
 542 Grant, E.
 9281 Grant, M. A.
 4642 Grant, R. B.
 3372 Grant, W. D.
 7084 Granum, P. E.
 4631 Grassi, G. G.
 1757 Grau, A.
 6329 Grau, C. R.
 6353 Grau, C. R.
 7968 Grau, C. R.
 6785 Grauman, G. S.
 6213 Graves, C. R.
 4929 Graves, M. H.
 10565 Gravesen, J.
 6486 Gray, A.
 9083 Gray, B. M.
 2467 Gray, C. J.
 5301 Gray, F. A.

Author index

- 2485 Gray, J.
 8642 Gray, P. M.
 10619 Gray, P. P.
 9283 Gray, R. J. H.
 9590 Gray, R. J. H.
 4773 Grayevskaya, N. A.
 10242 Grayston, J. T.
 5108 Grba, S.
 8991 Grbic, D.
 7451 Greatbanks, D.
 4503 Greathead, A. S.
 10020 Greaves, H.
 10030 Greaves, H.
 6412 Greaves, M. P.
 907 Greaves, P.
 2954 Grebenko, V. V.
 3283 Grebenshikova, O. G.
 7117 Greber, R. S.
 7122 Greber, R. S.
 7128 Greber, R. S.
 2918 Grechushkina, N. N.
 2120 Grecu, L.
 3573 Credit, M.
 9271 Green, E. L.
 271 Green, G. J.
 272 Green, G. J.
 786 Green, G. J.
 1876 Green, G. J.
 4318 Green, G. J.
 4319 Green, G. J.
 4354 Green, G. J.
 8655 Green, G. J.
 8773 Green, G. J.
 10626 Green, J. A.
 6128 Green, J. H.
 9252 Green, J. H.
 9588 Green, J. H.
 9559 Green, M. L.
 3637 Green, N. E.
 9845 Green, R. J. Jr.
 7302 Green, W.
 6452 Greenberg, J. A.
 2787 Greenhalgh, J. R.
 4459 Greenhalgh, J. R.
 9861 Greenhalgh, J. R.
 454 Greenhalgh, R.
 10351 Greenough, R. C.
 6143 Greensley, M. K.
 1321 Greenstone, G.
 8891 Greenway, B.
 10052 Greenwood, A. J.
 582 Greenwood, D.
 1333 Greenwood, D.
 7811 Greenwood, D.
 8120 Greenwood, D.
 7465 Greenwood, D. E.
 10069 Greenwood, E. A. N.
 4947 Greenwood, J. R.
 5207 Greer, D. O.
 2378 Gregersen, T.
 2395 Gregori, R. E.
 7401 Gregory, D.
 5044 Gregory, E. M.
 2564 Gregory, K. F.
 89 Gregr, V.
 6750 Gregr, V.
 6824 Gregr, V.
 9499 Gregr, V.
 4159 Greif, P.
 2838 Greig, B. J. W.
 2851 Greig, B. J. W.
 3604 Greig, B. J. W.
 8389 Grekova, V. K.
 9429 Grel, M. V.
 1138 Gremmen, J.
 7240 Gremmen, J.
 8846 Gremmen, J.
 3617 Grente, J.
 1817 Greppin, R.
 519 Gresser, I.
 6704 Grethlein, H. E.
 10499 Greuel, E.
 2716 Grewal, A. S.
 2734 Grewal, A. S.
 264 Grewal, J. S.
 1100 Grewal, J. S.
 1850 Grewal, J. S.
 2011 Grewal, J. S.
 2675 Grewal, J. S.
 2799 Grewal, J. S.
 5560 Grieco, C.
 433 Griffin, G. J.
 1852 Griffin, G. J.
 5461 Griffin, G. J.
 6191 Griffin, G. J.
 7258 Griffin, G. J.
 8021 Griffin, G. J.
 1963 Griffin, M. J.
 2059 Griffin, W. E.
 10454 Griffiths, C. L.
 7947 Griffiths, R. L.
 3772 Griffiths, R. S.
 8129 Griffiths, R. S.
 4852 Griffiths, W. L.
 4918 Griffiths, W. L.
 10452 Griffiths, W. L.
 10453 Griffiths, W. L.
 7378 Griffiths, A.
 4360 Griffiths, E.
 676 Griggs, G. B.
 2163 Grigo, J.
 4875 Grigoreva, L. V.
 9029 Grigorieva, V. M.
 9108 Grigorieva, V. M.
 2671 Grigoriu, A. C.
 3746 Grigoryan, R. V.
 1608 Grillner, L.
 3512 Grimaldi, L.
 4515 Grimaldi, L.
 7385 Grimm, H.
 3993 Grimont, F.
 3993 Grimont, P. A. D.
 6566 Grimont, P. A. D.
 6233 Grinberg, S. M.
 6969 Grinbergs, M.
 5586 Grineva, N.
 7605 Grinkevich, V. A.
 3390 Gripon, J. -C.
 7654 Gripon, J. -C.
 9367 Gripon, J. -C.
 7975 Griselli, M.
 5329 Grisenko, G. V.
 8942 Grishchenko, V. M.
 3207 Grivell, C. J.
 8686 Grochel, H.
 9591 Grodner, R. M.
 3606 Grodon, D. E.
 6604 Grodzenskaya, S. F.
 8997 Grodzinska-Zachwieja, Z.
 1708 Groenewegen, D.
 5314 Grof, B.
 4393 Grogan, R. G.
 7180 Grogan, R. G.
 8886 Grogan, R. G.
 8887 Grogan, R. G.
 9900 Grogan, R. G.
 5576 Groger, D.
 9467 Groger, D.
 9389 Groh, H.
 7424 Grokhovskij, S. L.
 7640 Groleau, D.
 9593 Groll, M.
 3434 Grollman, A. P.
 2102 Gromova, G. N.
 4842 Gromova, L. A.
 7649 Grosch, J. C.
 5694 Groschel, D.
 7139 Grosclaude, C.
 5794 Gross, A.
 1675 Gross, C.
 1676 Gross, C. (Contd)
 7864 Gross, D. C.
 2087 Grossbard, E.
 6736 Grossgebauer, K.
 184 Grossklauder, D.
 739 Grossklauder, D.
 1751 Grossman, G.
 6987 Grossman, G.
 3954 Grossman, G. C.
 5782 Grosso, E.
 10501 Grosso, E.
 377 Groth, J. V.
 2659 Groth, J. V.
 2690 Groth, J. V.
 1520 Groth, W.
 811 Grotzinger, E. W.
 2889 Grounds, M.
 4899 Grove, H. -H.
 6834 Grove, J. F.
 9713 Grove, J. F.
 1640 Grove, T. H.
 2734 Grover, R. K.
 3585 Grover, R. K.
 4464 Grover, F. K.
 5394 Grover, R. K.
 8992 Grover, S. K.
 3959 Grubbs, J. A.
 6772 Gruber, I. M.
 4948 Gruber, M.
 4651 Grudzinski, S.
 2382 Gruff, H.
 10239 Grugeon, H.
 3679 Gruhn, I.
 3918 Grun, L.
 3935 Grun, L.
 4909 Grun, L.
 506 Grunberg, E.
 4796 Gruner, J.
 10396 Gruner, J.
 1322 Grunicke, H.
 3877 Grunnet, K.
 10587 Grunnet, K.
 6856 Grunow, M.
 4634 Grunt, J.
 8681 Grupp, W.
 3206 Gruschkau, H.
 4833 Gruschkau, H.
 4818 Grushina, V. A.
 1210 Gryaznova, N. S.
 8165 Gryaznova, N. S.
 5955 Gryte, C. C.
 3569 Grzybowski, T.
 2196 Guarini, J. R.
 9324 Guarneri, J. J.
 1181 Guay, R.
 8039 Guay, R.
 4393 Gubler, W. D.
 5198 Gudding, R.
 7330 Guehor, E.
 3012 Guerra, G.
 3136 Guerry, P.
 3713 Guevarra, L. O.
 1839 Guha Mozumder, B. K.
 4177 Guidetti, G.
 88 Guillaume, J. B.
 6240 Guillemet, F.
 3410 Guinberteau, J.
 5843 Guinee, P. A. M.
 6879 Guionie, M.
 6880 Guionie, M.
 7634 Guionie, M.
 8358 Guionie, M.
 161 Guiraud, J.
 3437 Guiraud, J.
 4203 Guiraud, J.
 7759 Guiraud, J. P.
 5102 Gulayay, V. E.
 7662 Gulayeva, V. I.
 7596 Gulevskaya, S. A.
 3250 Gulev, N. M.

Author index

3859 Guller, J.
 3474 Guller, L.
 9627 Gulliver, A. L.
 2851 Gulliver, C. C.
 3533 Gulyas, A.
 8364 Gum, E. K. Jr.
 2262 Gumerov, N. K.
 3517 Gumpf, D. J.
 8697 Gumpf, D. J.
 9831 Gumpf, D. J.
 5368 Gundel, L.
 7509 Gundermann, K. - O.
 3877 Gundstrup, A. S. P.
 1579 Gunn, B. A.
 10595 Gunn, B. A.
 9182 Gunn, G. A.
 5117 Gunsalus, I. C.
 7603 Gunsalus, I. C.
 2926 Gunther, D.
 3147 Gunther, M.
 1042 Gupta, B. M.
 6516 Gupta, B. M.
 3980 Gupta, B. N.
 1841 Gupta, D. P.
 2774 Gupta, I. J.
 3227 Gupta, J. K.
 5898 Gupta, J. K.
 346 Gupta, J. P.
 2012 Gupta, J. P.
 3113 Gupta, K. B.
 1874 Gupta, K. C.
 3344 Gupta, K. G.
 3345 Gupta, K. G.
 5142 Gupta, K. G.
 1166 Gupta, M. L.
 8020 Gupta, M. L.
 7872 Gupta, M. N.
 5869 Gupta, N. P.
 7872 Gupta, N. P.
 8701 Gupta, P. C.
 7147 Gupta, P. N.
 4490 Gupta, R. B. L.
 8986 Gupta, R. C.
 3574 Gupta, R. N.
 3543 Gupta, R. P.
 7274 Gupta, R. P.
 6228 Gupta, S. C.
 3695 Gupta, S. K.
 4256 Gupta, S. K.
 4258 Gupta, S. K.
 7811 Gupta, S. K.
 8278 Gupta, U.
 3470 Gupta, U. P.
 8614 Gupta, U. P.
 2064 Gupta, V. K.
 2674 Gupta, V. K.
 2886 Gupta, V. K.
 4311 Gupta, V. K.
 4589 Gupta, V. K.
 5898 Gupta, Y. P.
 1730 Gurao, M. G.
 2692 Guraswamy Raja, V. D.
 3836 Gureeba, A. A.
 7930 Gurevich, B. I.
 7557 Gurevich, Y. L.
 4772 Gurgov, C.
 10528 Gurina, L. V.
 4744 Gurleva, G. G.
 5140 Gurofsky, S. M.
 8393 Gurr, J. A.
 7424 Gurskij, G. V.
 492 Gurs'kov, T. A.
 8758 Gusev, S. A.
 10370 Guskov, T. M.
 2901 Gustafson, J.
 7581 Gustafsson, B.
 10600 Gustavsson, B.
 6032 Gutierrez, C.
 6073 Guthertz, L. S.
 9574 Guthertz, L. S.
 6181 Guthrie, E. J.
 8642 Guthrie, J. W.
 6468 Gutierrez, J. R.
 6659 Gutierrez, M.
 2419 Gutmanis, F.
 4808 Gutscher, W.
 10351 Gutt, A. L.
 6776 Gutter, B.
 206 Gutzmann, F.
 7111 Guy, G.
 2325 Guy, M. D.
 10473 Guy, M. D.
 5412 Guy, S. O.
 10054 Guy, S. O.
 7375 Guze, L. B.
 425 Guzeva, I. S.
 8365 Gvalia, T. Sh.
 2915 Gvozdev, R. I.
 12 Gvozdzak, R. I.
 417 Gvozdzak, R. I.
 891 Gvozdzak, R. I.
 5807 Gwaliney, J. M.
 8675 Gwin, G. H.
 10080 Gwynn, S. M.
 99 Gyllang, H.
 5167 Gyllang, H.
 7085 Gyobu, Y.
 1440 Haak, W. J.
 1499 Haas, C. N.
 1861 Haas, J. H.
 1926 Haas, J. H.
 1753 Haas, R.
 3049 Haavik, H. I.
 3971 Habermann, E.
 6942 Habermehl, G.
 6493 Habib, N. S.
 7154 Habibullah, V. M.
 7922 Habibullah, V. M.
 6989 Hachimori, A.
 4092 Hachisuka, Y.
 8367 Hackert, M. L.
 6003 Hackett, J. A.
 4174 Hackett, W. F.
 2638 Hacking, A.
 1622 Hackler, L. R.
 8452 Hackler, L. R.
 8083 Hadden, V. W.
 4016 Haddock, B. A.
 5833 Haddock, B. A.
 7813 Haddon, W. F.
 3276 Hadibi, E. - H.
 4572 Hadley, G.
 4573 Hadley, G.
 9954 Hadwiger, L. A.
 7051 Hadziyev, D.
 5608 Hafiz, S.
 9425 Hafiz, S.
 1771 Hafke, A.
 2374 Hafner, E. W.
 10600 Hafstrom, L.
 6613 Hagan, P. L.
 2577 Hagarawy, I. S. E.
 2036 Hagedorn, C.
 7277 Hageman, R. H.
 7501 Hagemann, P.
 2273 Hagenmaier, H.
 5762 Hagenmaier, H.
 2950 Hagens, F. M.
 2992 Hagens, F. M.
 8179 Haggerty, D. L.
 5884 Haggstrom, L.
 8960 Hagiwara, S.
 1465 Hagler, W. M. Jr.
 2678 Haglund, W. A.
 2811 Haglund, W. A.
 1194 Hahn, F. E.
 1197 Hahn, F. E.
 3690 Hahn, F. E.
 4766 Hahn, F. E.
 1578 Hahn, G.
 6119 Hahn, G.
 9682 Hahn, G.
 4936 Hahn, H.
 5992 Hahn, H.
 2244 Haibara, K.
 9337 Haideris, C. G.
 2859 Haider, K.
 4527 Haines, B. L.
 8842 Haines, L. W.
 6679 Haines, R. F.
 3167 Hajek, M. Z.
 8516 Hajek, M. Z.
 3659 Hajj, H.
 7031 Hajslova, J.
 735 Hakanson, H. D.
 8921 Hakeem, A.
 9539 Haladova, E.
 10004 Halambek, M.
 6708 Halary-Marchat, M.
 3282 Halas, S.
 9433 Hales, G.
 7245 Hales, M. D. C.
 6262 Halfon-Meir, A.
 2378 Halgaard, C.
 9580 Hall, A. N.
 4491 Hall, B. J.
 7777 Hall, C. B.
 7421 Hall, D.
 7205 Hall, D. H.
 2442 Hall, D. O.
 6848 Hall, D. O.
 611 Hall, H. A.
 3813 Hall, M. J.
 6006 Hall, M. J.
 6007 Hall, M. J.
 1555 Hall, M. M.
 4971 Hall, M. M.
 8744 Hall, R.
 8122 Hall, R. F.
 7582 Hall, R. J.
 10269 Hall, W. H.
 4479 Hallam, N. D.
 2088 Hallberg, R. O.
 6456 Hallberg, R. O.
 4696 Halleck, F. E.
 10200 Halleck, F. E.
 917 Halligan, A. C.
 918 Halligan, A. C.
 1609 Halonen, P. E.
 6613 Halpern, S. E.
 4595 Ham, G. E.
 3645 Hamad-Fares, I.
 7683 Hamada, K.
 5749 Hamada, M.
 6594 Hamada, M.
 140 Hamada, S.
 141 Hamada, S.
 142 Hamada, S.
 8041 Hamada, S. - I.
 8044 Hamada, S. - I.
 1219 Hamada, Y.
 3201 Hamaller, R. J.
 3899 Haman, S.
 6146 Hamasaki, T.
 8324 Hamasaki, T.
 10585 Hambie, E. A.
 10491 Hamoraesus, A.
 6502 Hamdi, Y.
 5265 Hamdi, Y. A.
 6021 Hamdi, Y. A.
 1741 Hamdy, A. M.
 5226 Hamdy, A. M.
 1277 Hamdy, M. K.
 6794 Hamill, M.
 2241 Hamill, R. L.
 8418 Hamilton, B. K.
 9459 Hamilton, B. K.
 451 Hamilton, G.
 454 Hamilton, H. A.

Author index

- 2124 Hamilton, J. R.
9689 Hamilton, P. B.
10617 Hamilton, P. B.
1854 Hamilton, R. I.
7878 Hamilton, R. I.
7103 Hamilton, R. L.
4016 Hamilton, W. A.
4754 Hamilton-Miller, J. M. T.
5874 Hamilton-Miller, J. M. T.
7309 Hamilton-Miller, J. M. T.
6588 Hamma, N.
10084 Hammann, R.
4141 Hammarstrom, S.
6835 Hammarstrom, S.
1189 Hammer, K. D.
7667 Hammer-Jespersen, K.
1321 Hammerberg, S.
4657 Hammerberg, S.
6551 Hammerberg, S.
6218 Hammerschmidt, R.
6332 Hammerschmidt, R.
6832 Hammond, E. G.
7007 Hammond, E. G.
152 Hammond, L. A.
1979 Hammons, R. O.
2777 Hammons, R. O.
9640 Hampden, K. A.
8719 Hampson, M. C.
8743 Hampson, M. C.
1894 Hampton, J. G.
1895 Hampton, J. G.
7890 Hampton, J. G.
1854 Hampton, R. O.
1855 Hampton, R. O.
8610 Hampton, R. O.
8293 Hamsa, T. A. P.
4054 Han, Y. W.
9530 Hanada, K.
7453 Hanada, M.
9382 Hanaichi, Y.
7705 Hanaoka, Y.
50 Hanba, T.
3153 Hancher, C. W.
2514 Hancock, R. A.
5952 Handa, T.
7299 Handley, B.
4812 Haneda, I.
5741 Haneishi, T.
5742 Haneishi, T.
6700 Hang, Y. D.
6701 Hang, Y. D.
7598 Hang, Y. D.
8354 Hang, Y. D.
4126 Hanka, L. J.
6424 Hanka, M.
5357 Hanke, R. W.
1748 Hankins, L.
3948 Hankins, L.
5205 Hankins, L.
5982 Hankins, L.
9990 Hankins, L.
3982 Hanks, J. N.
1791 Hanna, M. O.
2612 Hanna, M. O.
2614 Hanna, M. O.
6127 Hanna, M. O.
7803 Hanna, M. O.
7804 Hanna, M. O.
9540 Hanna, M. O.
7272 Hannagan, R. B.
10567 Hannah, L. C.
5020 Hannan, M. A.
5916 Hannonen, P.
3824 Hannoun, C.
3347 Hanscomb, G.
4921 Hansen, D.
6787 Hansen, L. B.
4292 Hansen, T.
229 Hansen, W. G.
3850 Hansford, G. S.
2343 Hansman, D.
83 Hanson, J. R.
240 Hanson, J. R.
2509 Hanson, J. R.
6958 Hanson, J. R.
3960 Hanson, K. M.
6438 Hanson, R. B.
7269 Hanson, R. B.
7609 Hanus, J.
7610 Hanus, J.
5124 Hanze, A. R.
2581 Hapchuk, L. T.
3249 Haque, R.
2417 Haque, R. -U.
4217 Har, D. S.
3275 Hara, S.
9392 Hara, S.
9645 Hara, S.
5051 Hara, T.
5654 Harada, Y.
4956 Harada, K.
6778 Harada, K.
7443 Harada, K.
7434 Harada, S.
9125 Harada, S.
2460 Harada, T.
5065 Harada, T.
5922 Harada, T.
10049 Harada, T.
1013 Haragopal, T.
1851 Haragopal, T.
8644 Harahap, Z.
5537 Haraphongse, R.
10225 Harber, M. J.
4337 Harder, D. E.
4982 Harder, W.
2127 Hardi, R.
1051 Hardin, G. B.
2103 Harding, A. L.
3541 Harding, P. R. Jr.
6319 Harding, V.
3440 Harding, W. C.
3563 Hardison, J. R.
9594 Hardy, D.
729 Hardy, D. W.
730 Hardy, D. W.
797 Hardy, R. W. F.
5498 Hardy, R. W. F.
5872 Hardy, R. W. F.
7276 Hardy, R. W. F.
9308 Hardy, R. W. F.
2041 Hare, R. C.
7633 Harel, E.
4079 Harford, S.
373 Hargreaves, J. A.
244 Hariharan, H.
2474 Hariu, H.
4004 Harju, M.
3517 Harjung, M. K.
10117 Harkness, N. K.
4528 Harley, J. L.
7230 Harley, J. L.
2805 Harlimann, J. H.
610 Harmalkar, S. G.
3872 Harman, B. G.
6157 Harmon, L. G.
9741 Harmon, L. G.
908 Harmon, S. M.
2376 Harmon, S. M.
7552 Harmon, S. M.
7721 Harmon, S. M.
1744 Harms, F.
2586 Harms, F.
952 Harms, R. H.
1767 Harms, R. H.
6856 Harnisch, H.
6989 Harnulva, B. G.
5886 Haroun, B. M.
7915 Harpaz, I.
8732 Harper, F. R.
9487 Harper, J. D.
7277 Harper, J. E.
3379 Harper, J. M.
6876 Harper, J. M.
1163 Harper, S. H. T.
7532 Harquet, A.
5352 Harra, J.
9568 Harrap, B. S.
9044 Harrell, J.
1054 Harries, H. C.
6809 Harrigan, W. F.
8367 Harris, B. A.
2491 Harris, C. I.
2492 Harris, C. I.
8215 Harris, C. J.
1584 Harris, D. L.
3723 Harris, J. A.
3568 Harris, J. E.
3311 Harris, J. I.
6907 Harris, J. I.
7665 Harris, J. J.
3292 Harris, J. O.
3293 Harris, J. O.
3034 Harris, M. A.
7806 Harris, M. E.
3850 Harris, N. P.
10286 Harris, R.
7827 Harris, T. M.
1908 Harrison, B. D.
3036 Harrison, C. R.
4738 Harrison, C. R.
6902 Harrison, D. E. F.
8266 Harrison, D. E. F.
8300 Harrison, D. E. F.
6108 Harrison, D. G.
4210 Harrison, J. C. L.
2687 Harrison, J. G.
351 Harrison, M.
5415 Harrison, M. D.
8717 Harrison, M. D.
8720 Harrison, M. D.
4831 Harrison, V. R.
6236 Harrower, K. M.
9814 Harrower, K. M.
5842 Harry, E. G.
3191 Hart, A.
9280 Hart, A.
3988 Hart, G. D.
4849 Hart, J. B.
3537 Hartill, W. F. T.
5061 Hartman, D. P.
3972 Hartman, P. A.
4892 Hartman, P. A.
5049 Hartman, P. A.
6030 Hartman, P. A.
6770 Hartman, P. A.
776 Hartmann, H.
10270 Hartmann, A. I.
4071 Hartter, E.
10131 Hartwig, E. C.
5814 Hartwig, N. R.
145 Haruta, M.
6380 Harvey, A. E.
986 Harvey, A. M.
3611 Harvey, G. M.
4547 Harvey, G. M.
1108 Harvey, O. A.
3562 Harvey, O. A.
9239 Harvey, R. E. S.
5060 Harvey, R. J.
5799 Harvey, R. W. S.
10476 Harvey, R. W. S.
4859 Harvey, W. B.
5937 Harvie, N. R.
6231 Harwalkar, V. R.
2589 Harwig, J.
6008 Harwig, J.
7830 Harwig, J.
8647 Hasanuddin, A.

Author index

8396 Hasche, K. D.
 3330 Hase, S.
 5957 Hasegawa, E.
 3288 Hasegawa, M.
 6553 Hasegawa, M.
 8326 Hasegawa, M.
 5730 Hasegawa, T.
 7986 Hasegawa, T.
 4047 Hasegawa, Y.
 9426 Hasegawa, Y.
 2066 Hasenclever, H. F.
 3244 Haser, R.
 8952 Hashimoto, Y.
 646 Hashimoto, H.
 4683 Hashimoto, K.
 578 Hashimoto, M.
 4819 Hashimoto, M.
 5753 Hashimoto, M.
 3844 Hashimoto, S.
 3719 Hashizume, B.
 8497 Haskova, B.
 8628 Haspel-Horvatovic, E.
 4113 Hassall, H.
 3813 Hassall, V. H.
 3082 Hassan, A. I.
 9963 Hassan, M. M. R.
 1794 Hassan, Y. M.
 1500 Hasselbarth, U.
 7028 Hasselmann, M.
 7724 Hassing, F.
 296 Hassing, J.
 4812 Hasuda, K.
 8340 Hataaka, A.
 7433 Hatanori, K.
 8993 Hatch, M. T.
 3151 Hatch, R. T.
 194 Hatcher, W. S.
 9608 Hatcher, W. S.
 3243 Hatchikian, C. E.
 2443 Hatchikian, E. C.
 8397 Hatchikian, E. C.
 9436 Hatfi, Y.
 6146 Hatsuda, Y.
 8324 Hatsuda, Y.
 6227 Hattai, T.
 10166 Hattai, T.
 3211 Hatten, B. A.
 5059 Hattman, S.
 2768 Hatwalne, V. G.
 2771 Hatwalne, V. G.
 4440 Hatwalne, V. G.
 4578 Hatwalne, V. G.
 10348 Hauashi, M.
 8212 Hauffman, W. F.
 1176 Haug, S.
 1177 Haug, S.
 5196 Haug, S.
 6853 Haugen, T. H.
 96 Haukeli, A. D.
 9158 Haupt, L.
 7721 Hauschild, A. H. W.
 7723 Hauschild, A. H. W.
 7765 Hauschild, A. H. W.
 5629 Hausdorf, M.
 10229 Hauser, K. J.
 4205 Hauser, M. M.
 6755 Hausler, W. J. Jr.
 6756 Hausler, W. J. Jr.
 4730 Hausner, O.
 4730 Hausnerova, S.
 5498 Havelka, U. D.
 7276 Havelka, U. D.
 313 Haware, M. P.
 1061 Haware, M. P.
 2007 Haware, M. P.
 2818 Haware, M. P.
 4302 Haware, M. P.
 2910 Hawkes, D.
 5121 Hawkins, J.
 9638 Hawkins, J. C.
 1760 Hawksworth, D. L.
 4543 Hawksworth, F. G.
 7236 Haworth, M. N.
 3514 Hawthorne, B. T.
 8339 Hayakawa, I.
 7792 Hayakawa, K.
 4189 Hayakawa, S.
 8417 Hayano, K.
 10048 Hayano, K.
 10350 Hayano, K.
 2917 Hayashi, M.
 6467 Hayashi, M.
 8417 Hayashi, M.
 8433 Hayashi, M.
 9321 Hayashi, M.
 2556 Hayashi, T.
 7708 Hayashi, T.
 8373 Hayashibe, W.
 5007 Hayat, M. A.
 2032 Hayee, M. A.
 8273 Hayek, L. J.
 2627 Hayes, A. W.
 10512 Hayes, W.
 9022 Hayes, W. P.
 3089 Hayhoe, J. P. V.
 2158 Haynes, W. C.
 6742 Hays, H.
 10354 Hays, P. R.
 3163 Hazeqhi, P.
 4881 Hazen, T. C.
 10629 Hazlett, D. T. G.
 7791 Heagle, A. S.
 4434 Heale, J. B.
 6319 Heale, J. B.
 9911 Heale, J. B.
 9912 Heale, J. B.
 6495 Healy, T. E. J.
 9195 Heaman, J. D.
 154 Heap, H. A.
 7747 Heap, H. A.
 1414 Hearn, M. T. W.
 7831 Heath, J. L.
 4300 Heath, M. C.
 7997 Heather, W. A.
 819 Heatley, N. G.
 9584 Hebel, R. D.
 1749 Hechelmann, H.
 3966 Hecht, S. T.
 1990 Hecker, R. J.
 1577 Heczko, P. B.
 8172 Hedberg, S.
 1616 Heden, C. -G.
 8957 Heding, H.
 9102 Heding, H.
 3227 Heding, L. G.
 5504 Hedrick, H. G.
 6460 Hedrick, H. G.
 139 Hedrick, R. I.
 913 Heeschen, W.
 2568 Heeschen, W.
 3174 Hegazi, N. A.
 4562 Hegazi, N. A.
 8783 Heichel, G. H.
 2966 Heidelbergers, C.
 1409 Heifetz, C. L.
 4004 Heikonen, M.
 1798 Heil, J. R.
 2617 Heil, J. R.
 6990 Heimsch, R. C.
 330 Heine, A.
 7835 Heine, H. Jr.
 3144 Heinecke, H.
 4808 Heinecke, H.
 8772 Heiner, R. E.
 6667 Heinicke, W.
 6978 Heinig, W.
 9289 Heinis, J. J.
 4975 Heinle, D. A.
 8918 Heinonen, H.
 1860 Heinrichs, E. A.
 5071 Heinrikson, R. L.
 3269 Heinstein, P.
 8509 Heinz, G.
 3420 Heiss, W. H.
 292 Heitefuss, R.
 7931 Heitefuss, R.
 2260 Heitz, F.
 8358 Heitz, M.
 8169 Heitz, M. A.
 146 Hekmati, M.
 2545 Helbert, J. R.
 5133 Helblina, A. M.
 5134 Helbling, A. M.
 10426 Held, H. R.
 9000 Helgstrand, E.
 6972 Helin, T. K. M.
 1511 Hell, K.
 9739 Hellberg, B.
 1233 Hellgren, L.
 2119 Hellgren, L.
 8947 Hellwig, M.
 3009 Helm, E. B.
 355 Helms, Jorgensen, J.
 6185 Helms, K.
 7156 Helms, K.
 3715 Helser, T. L.
 4553 Helsing, G.
 2165 Helstad, A. G.
 3613 Helvurg, L. B.
 621 Heman-Ackah, S. M.
 8600 Hemmati, K.
 3219 Hemmerich, P.
 5045 Hemoer, A.
 207 Henderson, A. R.
 9634 Henderson, A. R.
 7375 Henderson, D. K.
 4226 Henderson, H. E.
 4005 Henderson, M.
 10455 Henderson, R. W.
 2903 Hendrix, J. L.
 3637 Hendrix, J. W.
 6172 Hendrix, J. W.
 6305 Hendrix, J. W.
 6306 Hendrix, J. W.
 7937 Hendrix, J. W.
 1423 Henes, J. B.
 2934 Henis, Y.
 4565 Henis, Y.
 6763 Henis, Y.
 6463 Henkel, H. G.
 5005 Henle, W.
 7361 Henneman, S. A.
 9629 Hennig, A.
 6367 Hennings, P.
 8013 Henningsson, B.
 2097 Henri, P.
 8917 Henriksson, L. E.
 7062 Henry, N.
 8397 Henry, Y. A.
 681 Hephherd, R. Q.
 5478 Hepper, C. M.
 8616 Hepperly, P. R.
 1626 Herald, A. C.
 4036 Herbert, R. B.
 10179 Heremans, H.
 8500 Herian, K.
 8456 Heritage, A. D.
 1241 Herlyn, M.
 7360 Herman, A.
 9096 Hermann, A.
 887 Hermann, P.
 9126 Hermann, T.
 5106 Hernandez, E.
 2055 Herr, L. J.
 7939 Herricks, C. C.
 7940 Herricks, C. C.
 446 Herridge, D. F.
 2885 Herridge, D. F.
 833 Herrmann, K. M.
 5604 Herschel, J.

Author index

- 1817 Hertig, J.
 4130 Hertzberg, S.
 9469 Hertzberg, S.
 9007 Herzog, U.
 8169 Heslar, M. A.
 7451 Hesp, B.
 10063 Hess, D.
 172 Hess, E.
 173 Hess, E.
 946 Hesselstine, C. W.
 1804 Hesselstine, C. W.
 1805 Hesselstine, C. W.
 2623 Hesselstine, C. W.
 4190 Hesselstine, C. W.
 5216 Hesselstine, C. W.
 9705 Hesselstine, C. W.
 9786 Hesselstine, C. W.
 1505 Hetrick, F.
 6943 Heumann, W.
 2850 Hewitt, H. G.
 5715 Hewitt, W. L.
 7439 Hewitt, W. L.
 1636 Hewlett, E.
 6461 Heyer, J.
 8139 Heymes, R.
 3918 Heyn, U.
 4138 Heyon, S. - B.
 8704 Hibben, C. R.
 191 Hibberd, G. E.
 5317 Hibino, C.
 6239 Hickey, K. D.
 7777 Hicks, J. R.
 5838 Hicks, M. J.
 2701 Hidaka, Z.
 8737 Hidaka, Z.
 6289 Hide, G. A.
 7947 Hide, G. A.
 1871 Hiekinheim, O.
 8912 Hietkamp, G.
 2459 Higa, A. I.
 3262 Higa, A. I.
 9413 Higaki, M.
 7433 Higashide, E.
 10331 Higashide, E.
 6992 Higgins, C. F.
 6902 Higgins, I. J.
 729 Higgins, M. R.
 730 Higgins, M. R.
 4496 Higgins, V. J.
 4497 Higgins, V. J.
 7073 Hight, R. J.
 10025 Highley, T. L.
 2519 Hignett, R. C.
 4290 Hignett, R. C.
 140 Higoshi, H.
 141 Higoshi, H.
 142 Higoshi, H.
 8326 Higuchi, H.
 7448 Higuchi, N.
 5594 Higuchi, T.
 7322 Higuchi, T.
 6119 Hilburg, W.
 7127 Hilda, A.
 6969 Hildebrand, R. P.
 7012 Hildebrandt, G.
 3205 Hilfenhaus, J.
 3206 Hilfenhaus, J.
 1670 Hill, B.
 1750 Hill, D. A.
 4618 Hill, E. C.
 7283 Hill, E. C.
 7288 Hill, E. C.
 3368 Hill, G. A.
 4973 Hill, H. R.
 1654 Hill, J.
 6659 Hill, J.
 1867 Hill, J. H.
 5656 Hill, J. P.
 6807 Hill, M. J.
 9657 Hill, R. C.
 9474 Hill, R. E.
 8726 Hill, R. F.
 6085 Hill, W. M.
 6785 Hill, W. M.
 7812 Hilldrup, J. A. L.
 2280 Hilleman, M. R.
 4646 Hillier, G. E.
 2249 Hillig, K. W.
 6744 Hilliger, H. G.
 7234 Hillis, W. E.
 7205 Hills, F. J.
 2293 Hilsdon, C. W.
 2293 Hilsdon, P. E.
 7765 Hilsheimer, R.
 2798 Hilty, J. W.
 7124 Hilty, J. W.
 4410 Hims, M.
 6655 Hince, C. J.
 10314 Hince, C. J.
 7420 Hinchliffe, P. M.
 10259 Hinchliffe, P. M.
 1745 Hindler, V.
 770 Hine, P. W.
 5301 Hine, R. B.
 8884 Hine, R. B.
 10455 Hines, A. L.
 1454 Hines, D. A.
 5330 Hino, T.
 1387 Hino, H.
 1388 Hino, H.
 2270 Hino, H.
 5704 Hino, H.
 5705 Hino, H.
 10324 Hino, H.
 9679 Hinz, P.
 4104 Hinz, H.
 7554 Hippe, H.
 5967 Hirabayashi, T.
 6561 Hiraga, K.
 3278 Hirai, M.
 5914 Hirai, M.
 9466 Hirano, A.
 6858 Hirano, K. - I.
 10521 Hirano, S.
 1318 Hiraoka, T.
 7391 Hiraoka, T.
 8145 Hiraoka, T.
 10401 Hirasawa, K.
 70 Hirase, S.
 71 Hirase, S.
 1634 Hirata, H.
 5298 Hirata, K.
 864 Hirata, T.
 2839 Hiratsuka, Y.
 1272 Hiratuka, K.
 1018 Hiremath, P. C.
 6184 Hiremath, P. C.
 2458 Hiremath, S. T.
 8498 Hiroi, T.
 2493 Hiroishi, S.
 4051 Hiromi, K.
 9356 Hiromi, K.
 7712 Hirose, S.
 815 Hirose, Y.
 883 Hirose, Y.
 2533 Hirose, Y.
 2534 Hirose, Y.
 2914 Hirose, Y.
 5028 Hirose, Y.
 5026 Hirota, A.
 8325 Hirota, A.
 9339 Hirota, A.
 9449 Hirota, K.
 5652 Hirschman, S. Z.
 5751 Hirschman, S. Z.
 10130 Hirsh, D. C.
 5901 Hirt, W.
 6852 Hirte, W. F.
 7903 Hiruki, C.
 8624 Hiruki, C.
 10099 Hisatsuka, K.
 7981 Hislop, E. C.
 5659 Hitaka, T.
 1641 Hitchcock, M. J. M.
 6334 Hite, R. E.
 8770 Hite, R. E.
 5556 Hiura, Y.
 5556 Hizutani, J.
 10433 Hlozanek, I.
 10278 Hlubucek, J. R.
 790 Ho, H. H.
 1913 Ho, W. C.
 9947 Ho, W. C.
 3812 Ho, Y. - K.
 2127 Ho, Y. K.
 6473 Hoadley, A. W.
 5793 Hoang Van M.
 7248 Hoard, P. J. A.
 5556 Hobar, S.
 9258 Hobbie, J. E.
 9586 Hobbs, G.
 10294 Hobson, D.
 4019 Hobson, F. N.
 5515 Hobson, P. N.
 9384 Hochuli, E.
 9385 Hochuli, E.
 1635 Hockel, M.
 3036 Hodge, P.
 4738 Hodge, P.
 6211 Hodges, C. F.
 4827 Hodges, G. R.
 7067 Hodges, T. K.
 7558 Hodgkinson, P.
 1641 Hodgson, B.
 4567 Hodgson, J.
 732 Hodgson, R.
 1306 Hoeffler, U.
 2241 Hoehn, M. M.
 10388 Hoehn, M. M.
 5729 Hoeksema, H.
 5744 Hoeksema, H.
 3755 Hoellering, R. C. Jr.
 1202 Hoepflich, P. D.
 3706 Hoepflich, P. D.
 5632 Hoepflich, P. D.
 6266 Hoes, J. A.
 8734 Hoes, J. A.
 8383 Hofer, H. W.
 776 Hofer, M.
 3476 Hofferek, H.
 3902 Hoffken, F.
 2903 Hoffmann, L. E.
 4966 Hoffman, P. C.
 10105 Hoffmann, B.
 10106 Hoffmann, B.
 376 Hoffmann, G. M.
 398 Hoffmann, G. M.
 4610 Hoffmann, G. M.
 3910 Hoffmann, K.
 10436 Hoffmann-Walbeck, H. P.
 6040 Hofi, A. A.
 9569 Hofi, A. A.
 8482 Hofi, N. L.
 9155 Hofle, G.
 8925 Hoflich, G.
 8926 Hoflich, G.
 8927 Hoflich, G.
 8928 Hoflich, G.
 3144 Hofmann, A.
 6911 Hofmann, E.
 5227 Hofmann, J. M.
 1667 Hofmann, T.
 2489 Hofmann, T.
 2490 Hofmann, T.
 2491 Hofmann, T.
 2492 Hofmann, T.
 7654 Hofmann, T.
 5005 Hofschneider, P. H.
 63 Hofstad, T.
 3330 Hofstad, T.

Author index

- 8731 Hcgaboam, G. J.
- 4973 Hegan, N. A.
- 590 Hogue, J.
- 4588 Hohn, C. H.
- 2754 Hohl, H. R.
- 1701 Hohn, K.
- 3170 Hohn, C.
- 5540 Hohn, C.
- 3763 Hcinowski, A. M.
- 2055 Hoitink, H. A. J.
- 7960 Hoitink, H. A. J.
- 855 Hojeberg, B.
- 5646 Hojer, H.
- 5700 Hojer, H.
- 8154 Hojer, H.
- 4094 Hcjima, Y.
- 8569 Hokby, E.
- 9710 Hoke, G. D. Jr.
- 1790 Hoke, K. E.
- 8544 Hoke, K. E.
- 9765 Hoke, K. E.
- 2621 Holaday, C. E.
- 876 Holcenberg, J. S.
- 4903 Holcenberg, J. S.
- 318 Holcomb, G. E.
- 4379 Holcomb, G. E.
- 363 Holdaway, B. F.
- 5044 Holdeman, L. V.
- 8271 Holdeman, L. V.
- 413 Holden, G.
- 8122 Holden, K. G.
- 6695 Holder, G. A.
- 7533 Holder-Franklin, M.
- 2542 Holdom, R. S.
- 3149 Holdom, R. S.
- 7472 Holdom, R. S.
- 6396 Holgate, M. E.
- 3349 Holker, J. S. E.
- 8171 Holker, J. S. E.
- 9184 Holladay, D. G.
- 167 Holladay, J. H.
- 10549 Hollander, J. W.
- 3440 Hollander, V. P.
- 812 Hollenberg, D. H.
- 3599 Hollett, B. P.
- 4036 Holliman, F. G.
- 3818 Hollinger, F. B.
- 6163 Hollings, M.
- 187 Hollis, C. G.
- 4166 Hollis, C. G.
- 430 Hollis, J. P.
- 5473 Hollis, J. P.
- 8376 Hollis, J.
- 1206 Holloway, B. W.
- 10561 Hollywood, N.
- 7369 Holmberg, K.
- 1830 Holme, T.
- 10558 Holmes, B.
- 5806 Holmes, C. J.
- 2928 Holmes, I. B.
- 5335 Holmes, M. R.
- 2708 Holmes, S. J. I.
- 6715 Holmstrom, P.
- 6033 Holsing, G. C.
- 10595 Holt, E. S.
- 1295 Holt, G.
- 1346 Holt, G.
- 3023 Holt, G.
- 1297 Holt, H. A.
- 9281 Holt, J. G.
- 4719 Holt, R. J.
- 8628 Holubkova, B.
- 8338 Holve, W. A.
- 6280 Holz, G.
- 6311 Holz, G.
- 9580 Holzappel, W. H.
- 4104 Holzer, H.
- 1684 Holzwarth, G.
- 10345 Honda, H.
- 4283 Honda, T.
- 8179 Hong, J. -S.
- 3065 Hongo, M.
- 3066 Hongo, M.
- 3067 Hongo, M.
- 165 Honikel, K. O.
- 5718 Honjo, M.
- 9004 Honkan, V.
- 1991 Honma, S.
- 8779 Honma, S.
- 6542 Honorato, J.
- 5004 Hood, D. W.
- 1126 Hood, I. A.
- 3347 Hood, J. D.
- 10072 Hood, M. A.
- 6214 Hooker, A. L.
- 7197 Hooker, A. L.
- 7198 Hooker, A. L.
- 10130 Hooper, D. G.
- 9433 Hooper, E. A.
- 363 Hooper, G. R.
- 10606 Hooper, G. R.
- 3340 Hooper, H.
- 5694 Hopfer, R. L.
- 1929 Hopkins, D. L.
- 10613 Hopkins, J. M.
- 10616 Hopkins, J. M.
- 676 Hopkins, T. S.
- 3449 Hoppe, H. H.
- 3707 Hoppe, H. H.
- 3708 Hoppe, H. H.
- 10603 Hooper, J. E.
- 292 Hoppe, J. H.
- 2223 Hopper, M. W.
- 2010 Hopping, M. E.
- 7608 Hopsu-Havuu, V. K.
- 3062 Hopwood, D. A.
- 6488 Hopwood, D. A.
- 10513 Hopwood, D. A.
- 7258 Hora, T. S.
- 5999 Horakova, K.
- 7824 Horgens, P. A.
- 9389 Horhold, C.
- 5749 Horie, M.
- 10383 Horie, M.
- 932 Horie, S.
- 4052 Horie, S.
- 9533 Horie, S.
- 1940 Horikawa, T.
- 848 Horikoshi, K.
- 1672 Horikoshi, K.
- 2462 Horikoshi, K.
- 2487 Horikoshi, K.
- 3264 Horikoshi, K.
- 3265 Horikoshi, K.
- 3271 Horikoshi, K.
- 5939 Horikoshi, K.
- 5945 Horikoshi, K.
- 2242 Horiuchi, T.
- 2476 Horiuti, Y.
- 8126 Horne, D.
- 3812 Hornemann, U.
- 2622 Horner, E. S.
- 6556 Hornick, R. B.
- 9968 Hornus, P.
- 6609 Horodecka, M.
- 3672 Horodiniceanu, T.
- 10265 Horoszewicz, J.
- 1364 Horoszewicz-Malafiej, A.
- 6462 Horowitz, A.
- 8940 Horowitz, A.
- 8626 Horricks, J. S.
- 8579 Horska, K.
- 5369 Horst, R. K.
- 9950 Horst, R. K.
- 1592 Horstmeier, C. D.
- 2910 Horton, R.
- 57 Horvath, G.
- 3195 Horvath, I.
- 3499 Horvath, J.
- 3507 Horvath, J.
- 2550 Horvath, R. S.
- 10573 Horwill, D. M.
- 6071 Horwitz, M. A.
- 3434 Horwitz, S. B.
- 5270 Horwitz, W.
- 9361 Hoshino, K.
- 5097 Hoshino, T.
- 7074 Hoshino, Y.
- 7454 Hoshino, Y.
- 1738 Hosking, Z. D.
- 1434 Hosoda, J.
- 4143 Hosokawa, S.
- 7750 Hosono, A.
- 8498 Hosono, A.
- 5697 Hossien, D.
- 4784 Hostalek, Z.
- 7460 Hostet, C.
- 3130 Hostovesky, T.
- 3866 Hoszang, G.
- 2180 Hotta, K.
- 2181 Hottla, K.
- 1242 Hottar, S.
- 5046 Hou, C.
- 18 Hou, C. T.
- 4173 Hou, C. T.
- 2935 Houang, E. T.
- 3296 Houchins, J. P.
- 3970 Hough, J. S.
- 7335 Hough, L. V.
- 9538 Houghtby, G. A.
- 8862 Houston, D. R.
- 9657 Houtzer, K. L.
- 10523 Hovelius, B.
- 7366 Hovig, B.
- 3855 Hovious, J. C.
- 3567 Howard, B.
- 2421 Howard, C. C.
- 7248 Howard, D. M.
- 7870 Howards, C. M.
- 6263 Howell, C. R.
- 6878 Howell, J.
- 6257 Howell, W. E.
- 7951 Howes, N. K.
- 10609 Howes, N. K.
- 2444 Hoy, E. S.
- 2535 Hoyer, A.
- 78 Hoyer, G. -A.
- 4146 Hoyer, G. -A.
- 9544 Hrabova, H.
- 4137 Hribar, J.
- 92 Hrivnak, J.
- 5307 Hrsak, V.
- 8470 Hruby, S.
- 6009 Hrudkova, A.
- 1577 Hryniewicz, W.
- 2993 Hryniewicz, W.
- 3000 Hryniewicz, W.
- 3003 Hryniewicz, W.
- 4046 Hryniewicz, W.
- 5268 Hsieh, D. P. -H.
- 2591 Hsieh, F. -H.
- 295 Hsieh, S.
- 9832 Hsieh, S. I.
- 8664 Hsieh, S. P. -Y.
- 9856 Hsieh, S. P. -Y.
- 9442 Hsu, C. F. J.
- 1667 Hsu, I. -N.
- 5965 Hsu, I. -N.
- 6682 Hsu, K. H.
- 6683 Hsu, K. H.
- 5071 Hsu, R.
- 3266 Hsu, C. Y.
- 5902 Hsu, C. Y.
- 3259 Huang, A. A.
- 5928 Huang, A. A.
- 1243 Huang, C. -H.
- 3193 Huang, C. T.
- 8260 Huang, C. T.
- 1243 Huang, E. -S.
- 270 Huang, H. C.

Author index

- 8734 Huang, H. C. (Contd)
 924 Huang, H. T.
 3053 Huang, K. - S.
 319 Huang, P.
 7220 Huang, T. C.
 8666 Huang, T. H.
 9083 Hubbell, C. A.
 449 Hubbell, D. H.
 2836 Hubbes, M.
 2837 Hubbes, M.
 3924 Hubble, I. B.
 6662 Huber, F. M.
 2191 Huber, H. E.
 34 Hubert, P.
 5748 Huckstep, L. L.
 9027 Huczowski, J.
 3189 Hudac, A.
 591 Huddleston, J. A.
 4536 Hudler, G. W.
 9619 Hudsky, Z.
 481 Hudson, J. O. Jr.
 3105 Hudson, J. W.
 10233 Hudson, R.
 7299 Hudson, W. R.
 306 Huett, D. O.
 10183 Huffman, J. H.
 8122 Huffman, W. F.
 4653 Hugbo, P. G.
 4198 Huggins, A. R.
 720 Hughes, C.
 6673 Hughes, D. E.
 1361 Hughes, D. W.
 4733 Hughes, D. W.
 4785 Hughes, D. W.
 6746 Hughes, H. L.
 10045 Hughes, J. D.
 10046 Hughes, J. D.
 7013 Hughes, J. M.
 4689 Hughes, M. N.
 7050 Hughes, R. B.
 2127 Hughes, R. G. Jr.
 730 Hughes, R. V.
 6811 Hugo, W. B.
 3446 Huhtanen, C. N.
 8477 Huhtanen, C. N.
 8055 Hui, J.
 4262 Hui, S. C.
 7761 Huismann, J.
 5483 Huismann, U. C.
 2488 Hulet, F. M.
 6187 Hull, R.
 1635 Hulla, F. W.
 421 Hulme, M. A.
 8569 Hult, K.
 7612 Hultin, H. O.
 7650 Hultin, H. O.
 7768 Hultin, H. O.
 9260 Humble, M. W.
 8881 Humble, S. J.
 2083 Hume, D. J.
 4594 Hume, D. J.
 5881 Humphrey, A. E.
 9491 Humphrey, A. E.
 9492 Humphrey, A. E.
 5005 Humphrey, J. H.
 1620 Humphreys, J. D.
 1921 Humphreys-Jones, D. R.
 7912 Humphreys-Jones, D. R.
 8702 Humphreys-Jones, D. R.
 5324 Hume, C.
 3169 Hungate, R. E.
 9203 Hungate, R. E.
 3516 Hunshi, G. D.
 1122 Hunt, R. S.
 5461 Hunter, P. P.
 7124 Hunter, P. P.
 7919 Hunter, T.
 4342 Hunter, W. E.
 8885 Hunter, W. E.
 2291 Hunter, W. G.
 1243 Huong, S.
 6368 Huppertz, J. L.
 4120 Hurlber, R. E.
 5078 Hurley, J. B.
 5716 Hurley, L.
 6486 Hurse, A.
 8356 Hurst, P. L.
 135 Hurtanen, C. N.
 8152 Hurwitz, A. R.
 7699 Huss, W. P.
 8915 Huss-Danell, K.
 5258 Hussain, A. M.
 7851 Hussain, A. M.
 528 Hussar, D. A.
 2693 Husaun, A.
 2056 Hussein, A. M.
 8355 Hussein, A. M.
 6021 Hussein, Y. A.
 10038 Hussey, R. S.
 10261 Husson, M.
 9473 Husthouse, M. B.
 1202 Huston, A. C.
 3706 Huston, A. C.
 473 Hutchinson, D. W.
 9421 Hutchinson, D. W.
 3166 Hutchinson, R.
 7243 Hutchinson, S. A.
 9852 Hutchinson, S. A.
 6907 Hutchison, C. A.
 2635 Hutchison, R. D.
 5573 Hutlet, J.
 9276 Hutter, S. H.
 3081 Huttner, R.
 10066 Huxley, P. A.
 5594 Huycks, M. M.
 930 Huyghebaert, A.
 925 Hwang, D.
 1656 Hwang, D. H.
 5948 Hwang, J. - T.
 2158 Hwang, S. - W.
 1655 Hy, M.
 289 Hyde, P. M.
 1010 Hyder, A.
 4139 Hyeon, S. - B.
 3260 Hylemon, P. B.
 7335 Hynes, J. B.
 10057 Hynes, R.
 2497 Iacobucci, G. A.
 7093 Iandolo, J. J.
 1201 Iannini, P. B.
 4036 Ibberson, P. N.
 3219 Ibers, J. A.
 5562 Ibrahim, E. S. A.
 6493 Ibrahim, E. S. A.
 1726 Ibrahim, G. F.
 5211 Ibrahim, G. F.
 8473 Ibrahim, G. F.
 6502 Ibrahim, I.
 7664 Ichihara, K.
 1223 Ichimoto, I.
 6026 Ichino, M.
 3311 Ichishima, E.
 4706 Idel'chik, M. S.
 428 Idris, M.
 2895 Idris, M.
 6121 Idzial, E. S.
 6702 Ielmini, M.
 1826 Igarashi, H.
 9740 Igarashi, H.
 7712 Igarashi, K.
 647 Iglewski, B. H.
 7090 Iglewski, B. H.
 7091 Iglewski, B. H.
 9028 Iglewski, W. J.
 4048 Igonina, Y. A.
 1434 Iguchi, E.
 7364 Ihn, W.
 8184 Ihn, W.
 9728 Iida, H.
 5957 Iida, T.
 6623 Iida, T.
 9117 Iida, T.
 9150 Iida, T.
 9151 Iida, T.
 9152 Iida, T.
 5052 Iijima, T.
 1318 Iino, K.
 8145 Iino, K.
 5149 Iinuma, H.
 642 Iinuma, K.
 1413 Iinuma, K.
 6641 Iinuma, K.
 4127 Iitaka, Y.
 2615 Iizuka, H.
 10095 Iizuka, M.
 6921 Ikeda, J. - E.
 10408 Ikeda, M.
 815 Ikeda, S.
 2501 Ikeda, S.
 642 Ikeda, Y.
 5966 Ikeda, Y.
 9 Ikeuchi, T.
 10 Ikeuchi, T.
 9684 Ikeuchi, T.
 3308 Ikezawa, H.
 7169 Ikin, R.
 9542 Ikonen, R. S.
 1917 Il'Chenko, L. V.
 7651 Ilag, L. L.
 8987 Ilag, L. L.
 10531 Ilchenko, A. P.
 4810 Ilchenko, G. B.
 3302 Ilczuk, Z.
 5887 Ilczuk, Z.
 9279 Ilea, R. V.
 5508 Ilialetdinov, A. N.
 5510 Ilialetdinov, A. N.
 9785 Illic, B.
 442 Ilina, T. K.
 10100 Illarionov, E. F.
 1616 Illeniz, T.
 4914 Ilnicka-Olejniczak, D.
 1619 Ilnicka-Olejniczak, O.
 8311 Ilnicka-Olejniczak, O.
 7227 Illoba, C.
 1555 Ilstrup, D. M.
 1592 Ilstrup, D. M.
 5488 Ilyasova, B. V.
 5466 Imagawa, H.
 163 Imai, C.
 7010 Imai, C.
 5890 Imai, H.
 3295 Imai, K.
 5513 Imai, K.
 5952 Imai, K.
 7622 Imai, K.
 6018 Imai, S.
 2448 Imai, T.
 7628 Imai, T.
 10332 Imai, G. M.
 10165 Imai, S. A.
 2282 Imamaliyev, O. G.
 1415 Imanaka, H.
 1434 Imanaka, H.
 7440 Imanaka, M.
 4155 Imanaka, T.
 3410 Imbernon, M.
 3154 Impey, C. S.
 3377 Imreh, E. Z.
 1715 Imrie, F. K. E.
 22 Imseuecki, A. A.
 2457 Imshenetsky, A. A.
 5119 Imshenetsky, A. A.
 5190 Imshenetsky, A. A.
 5476 Imshenetsky, A. A.
 5539 Imshenetsky, A. A.
 7641 Imura, K.
 5764 Inamori, Y.
 10403 Inamori, Y.

Author index

- 1800 Incze, K.
5261 Incze, K.
8560 Incze, K.
6600 Inczedy, J.
7581 Indman, B.
2304 Indrayan, A.
2011 Indulkar, A. S.
5430 Irdulkar, A. S.
4288 Infante, M.
3261 Ingalls, R. G.
1347 Ingaramo, R.
3463 Ingham, J. L.
6348 Ingham, J. L.
2902 Ingledew, W. M.
9265 Ingledew, W. M.
5161 Ingold, W.
7590 Ingraham, J.
5179 Inigo Leal, B.
6412 Inkson, R. H. E.
4503 Inman, J.
6935 Ino, S.
4824 Inoue, A.
7315 Inoue, K.
1195 Inoue, M.
8963 Inoue, M.
4824 Inoue, N.
3670 Inoue, S.
3342 Inouye, G.
1426 Inouye, S.
5367 Inouye, T.
644 Inshakova, T. A.
8886 Ioannou, N.
8887 Ioannou, N.
8371 Iobst, W.
5825 Ioffe, V. A.
4804 Iordanov, S.
2693 Iqbal Khan, M.
7257 Iqbal, S. H.
2884 Ireland, J. A.
8341 Irgens, R. L.
1427 Irie, H.
2540 Irie, Y.
105 Irigoien, B.
7708 Iriye, R.
2038 Irslinger, R.
6295 Irwin, F. A. G.
5300 Irwin, J. A. G.
254 Isaac, I.
1460 Isaac, P. G.
6822 Isaac, S.
6459 Isaacson, H. R.
5135 Isaacson, R. E.
8439 Isaeva, V. S.
485 Isakova, D. M.
10098 Isakova, Z. I.
5625 Isenberg, H. D.
4762 Isett, A. -M.
6853 Ishaque, A.
7567 Ishaque, M.
2531 Ishi, S.
1825 Ishida, N.
4807 Ishida, N.
186 Ishida, Y.
934 Ishida, Y.
9 Ishihama, A.
10 Ishihama, A.
4812 Ishii, F.
3295 Ishii, K.
10410 Ishii, K.
50 Ishii, S.
3355 Ishii, T.
10424 Ishii, T.
4065 Ishikawa, M.
7293 Ishikawa, T.
7294 Ishikawa, T.
8050 Ishikawa, T.
8944 Ishikawa, T.
9088 Ishikawa, Y.
10373 Ishikura, T.
9597 Ishimae, T.
9481 Ishimaru, K.
6905 Ishimoto, M.
889 Ishimoto, S.
3281 Ishinaga, M.
6947 Ishiwata, H.
8515 Ishiwata, H.
5118 Ishiyama, J.
9406 Ishiyama, S.
5722 Ishiyama, T.
2540 Ishizaki, H.
9775 Ishizaki, H.
2242 Ishizaki, N.
9135 Ishizuka, M.
2738 Ishmukhamedova, O. U.
4972 Islam, A. K. M. S.
6499 Islam, A. M.
9060 Ismagulova, G. D.
6582 Ismaiel, S. A.
3316 Ismail, A. A.
1966 Ismail, F. A.
9808 Ismail, I. M. K.
5519 Ismailov, N. M.
7056 Isohata, E.
8570 Isohata, E.
9698 Isohata, E.
3075 Isono, K.
9142 Isono, K.
10360 Isono, K.
10401 Isono, K.
5285 Ispolatovskaya, M. V.
6919 Ispolatovskaya, M. V.
4176 Isquith, I. R.
6255 Israel, H. W.
7979 Israel, H. W.
7447 Israil, I.
2969 Issanchou, A. -M.
6132 Issaq, H. J.
7676 Issaq, H. J.
1459 Isserstedt, K.
9279 Istrater, S.
10102 Isurugi, M.
3648 Iswaran, V.
8898 Iswaran, V.
2567 Itabashi, K.
3079 Itai, A.
4812 Ito, A.
6150 Ito, A.
1606 Ito, H.
2615 Ito, H.
9878 Ito, J. S.
6146 Ito, K.
221 Ito, K. A.
9473 Ito, M.
7946 Ito, P. J.
854 Ito, S.
3589 Ito, T.
3985 Ito, T.
10408 Ito, Y.
8498 Itoh, J.
5669 Itsygin, S. B.
7536 Iturriague, R.
464 Itzkovitch, I. J.
6661 Ivan, E.
7178 Ivancheva-Gabrovska, T.
9114 Ivanitskaya, L. P.
692 Ivankova, T. A.
6706 Ivanov, A. N.
1663 Ivanov, Ch. P.
7458 Ivanov, N. R.
6825 Ivanov, V. N.
652 Ivanov, V. T.
3069 Ivanov, V. T.
4804 Ivanov, V. T.
4829 Ivanov, V. T.
101 Ivanova, L. A.
8436 Ivanova, L. A.
2226 Ivanova, L. D.
2904 Ivanova, M. V.
9930 Ivanovic, M.
2088 Ivarson, K. C.
6456 Ivarson, K. C. (Contd)
10039 Ivarson, K. C.
7078 Ivers, J. T.
5003 Iversen, E. S.
463 Iversen, W. P.
2474 Iwai, K.
853 Iwai, M.
2243 Iwai, Y.
5128 Iwai, Y.
5719 Iwai, Y.
9466 Iwai, Y.
1426 Iwamatsu, K.
672 Iwami, S.
6606 Iwamoto, Y.
3589 Iwamura, H.
7702 Iwano, K.
1318 Iwano, Y.
8145 Iwano, Y.
1606 Iwasai, S.
9124 Iwasai, T.
3809 Iwasaki, K.
9727 Iwasaki, M.
545 Iwata, K.
10174 Iwata, K.
864 Iwata, S.
1148 Iyer, J. G.
4609 Iyer, J. G.
1195 Iyobe, S.
3670 Iyobe, S.
10129 Iyobe, S.
8347 Izotova, L. S.
7705 Izumi, Y.
5896 Izumiya, N.
3 Izuo, N.
771 Jaartsveld, F. H. J.
9509 Jaaskelainen, K.
2479 Jablonski, E.
1228 Jablonski, L.
7730 Jack, J. J.
7630 Jack, T. R.
10137 Jackett, P. S.
4912 Jackson, D. -M.
9610 Jackson, E. D.
9079 Jackson, G. E.
4674 Jackson, G. G.
8674 Jackson, G. V. H.
10055 Jackson, G. V. H.
526 Jackson, J.
241 Jackson, L. K.
5266 Jackson, L. K.
7069 Jackson, L. K.
3599 Jackson, M. T.
5655 Jackson, R. T.
5633 Jackson, S. E.
1804 Jackson, W. K.
3502 Jacob, H.
3503 Jacob, H.
7916 Jacob, H.
6475 Jacob, S.
2731 Jacob, V. J.
7789 Jacobs, G. J. L.
5601 Jacobs, G. P.
6610 Jacobs, G. P.
8127 Jacobs, J.
655 Jacobs, J. P.
3107 Jacobs, M.
3999 Jacobs, N. J.
1988 Jacobsen, E.
1453 Jacobson, C. D.
3668 Jacoby, G. A.
3483 Jacques, G.
7511 Jacquet Francillon, M. L.
7516 Jacquet Francillon, M. L.
9700 Jacquet, J.
6300 Jadaman, V. T.
1693 Jadot, J.
4420 Jadot, R.
756 Jager, J. C.
1599 Jagielski, M.

Author index

- 1734 Jago, G. R.
2672 Jagtap, R. P.
10571 Jahan, M. - T.
8521 Jahn, F.
1529 Jahrig, A.
1700 Jahrig, A.
3483 Jailloux, F.
6274 Jain, A. O.
8677 Jain, H. C.
1042 Jain, J. P.
2695 Jain, K. L.
7973 Jain, N. K.
10146 Jain, N. K.
9718 Jaiswal, D. K.
5158 Jakovenko, V. V.
8312 Jakubick, V.
3809 Jakubowski, A.
4464 Jalali, B. L.
7886 Jaleel Ahmed, N.
7146 Jamal, A.
1976 Jamaluddin
2749 Jamaluddin
3615 Jamaluddin
4446 Jamaluddin
7189 Jamaluddin
5072 Jamaluddin, M. P.
7308 James, A. M.
7562 James, A. M.
7563 James, A. M.
6779 James, A. N.
3487 James, G. L.
1667 James, M. N. G.
5965 James, M. N. G.
8771 James, N. L.
1097 James, R. H.
10184 Jamieson, A. T.
2339 Jamieson, W.
4 Jamieson, W. D.
481 Jamison, V. W.
5603 Jan, D.
6743 Janacek, J.
7899 Janati, A.
1146 Jancarik, V.
1147 Jancarik, V.
7304 Janecek, J. G.
8985 Jani, Y. K.
8775 Janick, J.
1691 Janicka, I.
9109 Janik, B.
8686 Jank-Ladwig, R.
169 Janky, D. M.
1682 Jann, B.
1682 Jann, K.
2372 Jannasch, H. W.
6762 Jannasch, H. W.
5916 Janne, J.
4724 Janovska, D.
3680 Janowiec, M.
10134 Janowiec, M.
8031 Jansen van Rensburg, H.
9170 Jansen, B. C.
5843 Jansen, W. H.
8164 Janssen, G.
10413 Janssen, G.
4156 Janssen, W. C.
8508 Janssens, M.
9447 Jansson, P. - E.
4952 Januszewicz, I.
4534 Janutolo, D. B.
7822 Janzen, J. J.
5193 Jarczuk, H. J.
6475 Jardot, F.
1399 Jaret, R. S.
5181 Jarniewicz, J.
206 Jarotmen, H.
2555 Jaroshenko, N. A.
8403 Jarrell, H. C.
3569 Jaruzelski, M.
5276 Jarvis, B.
5277 Jarvis, B.
8463 Jarvis, B. (Contd)
6310 Jarvis, W. R.
8742 Jarvis, W. R.
2273 Jaschke, K. H.
735 Jasper, D. E.
9258 Jasper, S.
8938 Jatsuk, M. V.
8898 Jauhri, K. S.
1917 Javorskaja, V. K.
3320 Jaworski, A.
3321 Jaworski, A.
7966 Jaworski, C. A.
9969 Jaworski, C. A.
4011 Jay, D. L.
982 Jay, E.
5230 Jay, J. M.
8485 Jayachandran, T.
5370 Jayasankar, N. P.
8831 Jayasankar, N. P.
4991 Jean, J. - H.
2517 Jeanes, A.
1718 Jedrychowski, L.
3394 Jedrzejska, H.
5290 Jeffrey, D.
9627 Jeffries, L.
9628 Jeffries, L.
4217 Jegathesan, M.
6109 Jehlicka, L.
3165 Jelinek, J. A.
2993 Jeljaszewicz, J.
3000 Jeljaszewicz, J.
3003 Jeljaszewicz, J.
4728 Jeljaszewicz, J.
9800 Jellings, A. J.
7929 Jellis, G. J.
7993 Jellis, G. J.
364 Jellum, M. D.
978 Jemmali, M.
1810 Jemmali, M.
8555 Jemmali, M.
9709 Jemmali, M.
286 Jen, W.
7632 Jeng, I. - M.
4002 Jenkin, H. M.
3340 Jenkins, C. L.
643 Jenkins, I. D.
285 Jenkyn, J. F.
7365 Jennings, B. R.
3096 Jennings, P. A.
7780 Jenny, B. F.
9722 Jensen, A. H.
355 Jensen, H. P.
356 Jensen, H. P.
6755 Jensen, J. P.
6756 Jensen, J. P.
2599 Jensen, K.
3244 Jensen, L. H.
10108 Jensen, V.
8421 Jentzsch, K.
5530 Jenzowski, E. - M.
2081 Jepsen, N. M.
10068 Jepsen, N. M.
7741 Jepsen, S.
5005 Jerne, N. K.
9629 Jerroch, H.
8584 Jerzmanowska, U.
922 Jespersen, N. J. T.
8499 Jespersen, N. J. T.
7573 Jeunink, J.
4389 Jeves, T. M.
314 Jeyarajan, R.
3513 Jeyarajan, R.
5354 Jeyarajan, R.
10527 Jezdinsky, V.
6720 Jezeski, J. J.
8483 Jezeski, J. J.
8484 Jezeski, J. J.
3415 Jhalal, V. M.
2676 Jhamaria, S. L.
8769 Jhamaria, S. L.
1106 Jhooty, J. S.
1964 Jhooty, J. S.
6186 Jhooty, J. S.
4451 Jit, T.
2152 Jigajinnie, V. B.
6032 Jimenez, R.
1870 Jimenez-Diaz, R. M.
145 Jinbo, K.
3294 Jinks, D. C.
7845 Jirillo, E.
5644 Jit Sud, I.
4137 Jiu, J.
9442 Jiu, J.
10139 Job, L.
3270 Joblin, K. N.
184 Jockel, J.
8550 Jockel, J.
7075 Joeffer, A. Z.
1811 Joffer, A. Z.
5827 Johansen, B. V.
5828 Johansen, B. V.
2845 Johansson, M.
6989 Johansson, M.
607 Johansson, N. G.
9000 Johansson, N. G.
4970 John, C.
10093 John, C. K.
4658 John, J. F. Jr.
6794 John, L.
3953 John, P.
10071 Johnen, B. G.
2391 Johnsen, T. A.
4468 Johnson, A. G.
7956 Johnson, A. G.
6489 Johnson, A. M.
1951 Johnson, A. W.
3270 Johnson, A. W.
7966 Johnson, A. W.
9969 Johnson, A. W.
5278 Johnson, B. E. C.
5861 Johnson, B. F.
1054 Johnson, C. G.
647 Johnson, D.
5647 Johnson, D.
4369 Johnson, D. A.
5395 Johnson, D. A.
8625 Johnson, D. A.
9378 Johnson, D. B.
5450 Johnson, D. W.
5808 Johnson, D. W.
6391 Johnson, D. W.
2192 Johnson, G.
3013 Johnson, G.
4411 Johnson, G. I.
3602 Johnson, G. N.
1983 Johnson, G. R.
10542 Johnson, J.
551 Johnson, J. E.
3213 Johnson, J. E.
4166 Johnson, J. E.
1383 Johnson, J. H.
5124 Johnson, J. H.
7022 Johnson, J. J.
5403 Johnson, J. M.
2279 Johnson, K. M.
5728 Johnson, L. E.
5630 Johnson, M.
7780 Johnson, M. G.
9784 Johnson, M. G.
7226 Johnson, P. N.
8876 Johnson, P. N.
8742 Johnson, P. W.
3455 Johnson, R.
10153 Johnson, R. G.
8336 Johnson, R. H.
7042 Johnson, R. L.
10294 Johnson, F. W. A.
4591 Johnston, A. W. B.
6446 Johnston, A. W. B.
8909 Johnston, A. W. B.

Author index

4307	Johnston, H. W.	9289	Jones, W. K.	10197	Kabara, J. J. (Contd)
5117	Johnston, J. B.	10585	Jones, W. L.	10313	Kabasakallian, P.
175	Johnston, M. A.	5542	Jonsson, M.	7091	Kabat, D.
2714	Johnston, R. H.	1658	Jonsson, U.	1588	Kabat, W. J.
2421	Johnstone, R. A. W.	5076	Jonsson, U.	9421	Kabayo, J. P.
2062	Johri, B. N.	5632	Jordan, G. W.	8030	Kabi, O. C.
5479	Johri, B. N.	6430	Jordan, W. R.	399	Kable, P. F.
3496	Johri, J. K.	6207	Jorgensen, J.	1222	Kabra, A.
1880	Joir, M. B.	356	Jorgensen, J. H.	2635	Kabuto, C.
2677	Joir, M. B.	1818	Jorgensen, J. H.	792	Kacaki, J.
5456	Jokela, J. J.	6549	Jorgensen, J. H.	485	Kachan, A. F.
6394	Jokela, J. J.	8627	Jorgensen, J. H.	1142	Kaczmarek, Z.
7221	Jokes, M.	8767	Jorgensen, J. H.	10569	Kaczmarek, W.
8069	Jokipii, A. M. M.	9082	Jorgensen, J. H.	9162	Kaczurba, E.
3194	Jokipii, L.	9266	Jorgensen, J. H.	2986	Kad, E. I.
8069	Jokipii, L.	5144	Jorina, D. M.	5079	Kadam, S. S.
2467	Jolley, M. E.	5099	Joris, L.	2713	Kadian, V. C.
5256	Jolley, P. D.	6213	Josephson, L. M.	6794	Kader, J.
27	Jolly, R. C.	396	Josepovits, G.	1091	Kadian, O. P.
2097	Joly, B.	2813	Josepovits, G.	6076	Kadis, V. W.
6737	Joly, B.	2814	Josepovits, G.	5687	Kadlubowski, R.
3638	Joly, P.	7559	Joshi, J. G.	7152	Kado, C. I.
7440	Jemon, K.	10170	Joshi, K. C.	8672	Kado, C. I.
1186	Jonas, R. B.	313	Joshi, L. K.	3722	Kado, M.
1898	Jones, A. L.	1061	Joshi, L. K.	186	Kadota, H.
4627	Jones, A. L.	1912	Joshi, L. K.	934	Kadota, H.
6375	Jones, A. L.	2801	Joshi, L. K.	2493	Kadota, H.
10590	Jones, A. L.	2818	Joshi, L. K.	739	Kaferstein, F. K.
4660	Jones, A. S.	4378	Joshi, L. K.	6028	Kaferstein, F. K.
1007	Jones, A. T.	7908	Joshi, L. K.	758	Kagami, I.
6315	Jones, A. T.	7945	Joshi, L. K.	9167	Kagan, F. I.
9748	Jones, A. T.	1038	Joshi, L. M.	10524	Kagan, R. L.
1568	Jones, C. W.	1039	Joshi, L. M.	31	Kagawa, M.
2379	Jones, C. W.	1890	Joshi, L. M.	1634	Kagawa, Y.
4079	Jones, D.	3490	Joshi, L. M.	9480	Kageyama, M.
6173	Jones, D.	430	Joshi, M. M.	7986	Kagiwata, T.
4359	Jones, D. G.	5473	Joshi, M. M.	2600	Kagura, S.
6209	Jones, D. G.	3470	Joshi, R. D.	2259	Kahan, F. M.
5814	Jones, D. O.	3555	Joshi, R. D.	2259	Kahan, J. S.
7507	Jones, E. B. G.	7957	Joshi, R. D.	230	Kahlau, D. I.
6721	Jones, E. E. Jr.	7964	Joshi, R. D.	231	Kahlau, D. I.
6175	Jones, E. R.	8614	Joshi, R. D.	779	Kahler, M.
58	Jones, E. R. H.	8834	Joshi, R. D.	1589	Kahler, M.
2508	Jones, E. R. H.	5548	Joshi, S. K.	1293	Kahn, R. A.
3325	Jones, E. R. H.	7466	Joslin, J. R.	1993	Kahn, R. P.
6928	Jones, E. R. H.	6420	Jouan, B.	8851	Kais, A. G.
3804	Jones, G. H.	7306	Jouvenot, M.	2667	Kaiser, W. J.
4988	Jones, H. E.	9694	Joyce, B. K.	7178	Kaitasawa, P.
8229	Jones, H. H.	9695	Joyce, B. K.	5942	Kaji, A.
1300	Jones, I. J.	3406	Juchnowicz, I.	7626	Kaji, A.
4998	Jones, J. G. W.	2555	Jukhnenco, S. B.	3809	Kaji, K.
5883	Jones, J. K. N.	2661	Juneja, R. C.	8055	Kajioka, R.
8403	Jones, J. K. N.	3159	Jung, M.	634	Kakinuma, K.
1992	Jones, J. P.	2342	Jungermann, E.	4806	Kakinuma, K.
9718	Jones, J. R.	4906	Jungermann, E.	5156	Kakisawa, H.
6924	Jones, K. M.	4808	Jungstand, W.	6506	Kakiuchi, Y.
8393	Jones, K. M.	8196	Juninaka, A.	4220	Kaku, F. O.
7204	Jones, L. C.	4136	Junker, A.	1732	Kalab, M.
3444	Jones, L. M.	10433	Jurajda, V.	4747	Kalakoutsii, L. V.
2882	Jones, M. B.	6650	Juret, R. S.	5619	Kalakoutsii, L. V.
6022	Jones, N.	3499	Juretic, N.	6946	Kalakoutsii, L. V.
628	Jones, N. D.	5387	Juretic, N.	5620	Kalakutsky, L. V.
2240	Jones, N. D.	7104	Juretic, N.	7782	Kalc, S.
2308	Jones, P.	9862	Juretic, N.	7897	Kaldash, A. S.
6549	Jones, P. M.	3219	Jurgensen, C. K.	1043	Kaleem, M.
8230	Jones, P. W.	6380	Jurgensen, M. F.	1743	Kalember-Radosavljevic, M.
9157	Jones, R. A.	940	Jurus, A. M.	1524	Kalich, J.
5735	Jones, R. B.	8384	Jurzyk, T.	1609	Kalimo, K. O. K.
7445	Jones, R. B.	5984	Jusic, D.	3131	Kalin, G. P.
2390	Jones, R. H.	9737	Jusic, D.	1917	Kalinin, F. L.
5770	Jones, R. J.	8554	Juszkiewicz, T.	5487	Kalininskaya, T. A.
3675	Jones, R. N.	778	Juven, B. J.	2433	Kalinkin, D. A.
10277	Jones, R. N.	6091	Juven, B. J.	10096	Kaliushny, M. Ya.
3462	Jones, R. T.	9221	Juven, B. J.	4204	Kalle, G. P.
9759	Jones, R. T.	9452	Kaaden, O. R.	10313	Kalliney, S.
10582	Jones, R. T.	9948	Kaan, F.	7457	Kalman, J. R.
2492	Jones, S. R.	10237	Kaback, H. R.	8199	Kalman, J. R.
10270	Jones, S. R.	1347	Kabankin, A. S.	9831	Kaloostian, G. H.
10542	Jones, S. R.	7346	Kabara, J. J.	1276	Kaloshin, P. M.
3185	Jones, W. D.			1785	Kalra, M. S.

Author index

- 7817 Kalra, M. S. (Contd)
 1574 Kalter, S. S.
 3505 Kalu, N. N.
 5675 Kaluzar, A.
 1599 Kaluzewski, S.
 1600 Kaluzewski, S.
 648 Kalvoda, L.
 3331 Kalyaeva, A. V.
 3336 Kalyuzhnaya, A. P.
 3846 Kam, J. F.
 8567 Kamaguchi, A.
 1166 Kamal
 8020 Kamal
 8314 Kamal
 5732 Kamale, F.
 8728 Kamale, J.
 5909 Kamalyan, M. G.
 7455 Kamata, S.
 10504 Kamay, B.
 3348 Kameda, M.
 9413 Kameda, Y.
 6999 Kamei, T.
 1665 Kamekura, M.
 2789 Kamel, M.
 6959 Kamerbeek, G. A.
 4487 Kameswar Row, K. V. S. R.
 5419 Kameswar Row, K. V. S. R.
 7709 Kamibayashi, A.
 2917 Kamikubo, T.
 6467 Kamikubo, T.
 9370 Kamikubo, T.
 9475 Kamikubo, T.
 2197 Kamimura, T.
 5661 Kamimura, T.
 110 Kamino, S.
 5724 Kaminskaya, G. O.
 9593 Kaminski, J.
 5594 Kaminski, J. J.
 7322 Kaminski, J. J.
 4060 Kamiryo, T.
 4061 Kamiryo, T.
 10380 Kamiya, K.
 578 Kamiya, T.
 4819 Kamiya, T.
 5753 Kamiya, T.
 7440 Kamiya, T.
 7725 Kamman, J. F.
 744 Kammerer, F. X.
 3392 Kammerlehner, J.
 1463 Kampelmacher, E. H.
 1745 Kampelmacher, E. H.
 3095 Kampelmacher, E. H.
 4238 Kampelmacher, E. H.
 8209 Kampelmacher, E. H.
 9138 Kamysheko, O. P.
 8054 Kamzolova, S. G.
 2242 Kanada, N.
 491 Kanai, K.
 2301 Kanai, K.
 8317 Kanai, M.
 4286 Kanamori, M.
 2218 Kanda, H.
 5216 Kanda, H.
 4824 Kanda, N.
 2881 Kandasamy, D.
 7275 Kandasamy, D.
 8916 Kandasamy, D.
 1303 Kane, A.
 4114 Kane, J. F.
 8399 Kaneda, R.
 3641 Kanehiro, Y.
 7086 Kanei, C.
 5660 Kaneko, M.
 7533 Kaneko, T.
 5654 Kaneko, Y.
 1328 Kanenko, M.
 852 Kanenko, T.
 7307 Kanes, W.
 10448 Kaneshiro, T.
 456 Kang, B. T.
 1681 Kang, K. S.
 3346 Kania, M. N.
 9214 Kanie, M.
 6172 Kanlong, S.
 2065 Kannaiyan, S.
 7886 Kannaiyan, S.
 1068 Kannayan, S.
 6516 Kant, A.
 10351 Kanter, G.
 4741 Kantor, R. J.
 2069 Kantzes, J. G.
 7963 Kanwar, R. S.
 1091 Kanwar, Z. S.
 1965 Kanwar, Z. S.
 5195 Kanz, E.
 4751 Kanzaki, T.
 5648 Kanzaki, T.
 8622 Kao, C. W.
 8664 Kao, C. W.
 9488 Kao, H. - W.
 3238 Kao, I. C.
 7505 Kaper, J. B.
 7938 Kaper, J. M.
 8090 Kapil, R. S.
 3961 Kapila, R.
 9520 Kaplan, A. M.
 10480 Kaplan, A. M.
 7398 Kaplan, M. A.
 4969 Kaplan, M. L.
 4106 Kaplan, N. O.
 7087 Kaplan, N. O.
 7735 Kapoor, C. M.
 1103 Kapoor, I. J.
 2728 Kapoor, J. N.
 382 Kapoor, K. S.
 2800 Kapooria, R. G.
 5739 Kaprelyants, A. S.
 4834 Kaptsova, T. I.
 7684 Kapuka, L. P.
 5658 Kapur, J. C.
 2802 Kapur, S. P.
 998 Kar, A. K.
 999 Kar, A. K.
 9438 Karacsonyi, S.
 3763 Karady, S.
 2738 Karaev, K. K.
 7458 Karaeva, L. T.
 9724 Karamian, N. A.
 4407 Karaseva, E. V.
 431 Karasevich, Y. N.
 2887 Karbanovich, A. I.
 942 Kardos-Huszar, I.
 8192 Karibyants, M. A.
 10510 Karim, K. A.
 5263 Karleskind, A.
 7428 Karnetova, J.
 9980 Karoiczak, W.
 482 Karpenko, M. N.
 2269 Karpov, V. L.
 4823 Karpov, V. L.
 8419 Karpov, V. L.
 600 Karpov, V. Ya.
 2282 Karpova, G. V.
 692 Karpukhin, V. F.
 4287 Karr, A. L.
 2086 Karr, G. W. Jr.
 10526 Karrer, D. A.
 2078 Karsono, H.
 1696 Karube, I.
 6851 Karube, I.
 6858 Karube, I.
 2597 Karunajeewa, H.
 841 Kasai, T.
 5522 Kasai, Y.
 9829 Kasap, G.
 8389 Kasatkina, I. D.
 7502 Kasatkina, T. N.
 8319 Kase, H.
 9871 Kasimatis, A. N.
 6439 Kasirajan, C.
 6917 Kaska, M.
 1291 Kaskoto, Z.
 5802 Kaslow, R. A.
 5621 Kaspari, H.
 5132 Kasperovich, T. V.
 6398 Kassaby, F. Y.
 8008 Kassaby, F. Y.
 8738 Kassanis, B.
 6078 Kastner, C. L.
 10388 Kastner, R. E.
 4639 Kasumova, Kh. M.
 5475 Kasumova, R. E.
 2243 Katagiri, M.
 4750 Katamoto, K.
 4751 Katamoto, K.
 4752 Katamoto, K.
 4760 Katamoto, K.
 3585 Kataria, H. R.
 4063 Katayama, Y.
 10410 Katayama, Y.
 7678 Katic, M.
 3065 Kato, F.
 3066 Kato, F.
 3067 Kato, F.
 6158 Kato, I.
 3232 Kato, J.
 864 Kato, K.
 2426 Kato, K.
 4063 Kato, K.
 5065 Kato, K.
 7567 Kato, L.
 2252 Kato, T.
 7120 Kato, T.
 8988 Kato, T.
 9132 Kato, T.
 9133 Kato, T.
 9134 Kato, T.
 9147 Kato, T.
 10324 Kato, T.
 3399 Kato, Y.
 6894 Katoh, K.
 8196 Katoh, Y.
 8373 Katohda, S.
 7705 Katou, T.
 6618 Katrukha, G. S.
 53 Katsura, H.
 54 Katsura, H.
 866 Katsura, H.
 9088 Katsura, S.
 2248 Katz, E.
 5712 Katz, E.
 5732 Katz, E.
 8174 Katz, E.
 9054 Katz, E.
 10347 Katz, E.
 7713 Katz, J.
 1537 Katz, R. V.
 4231 Katz, S. E.
 697 Katzenelson, E.
 3130 Katzenelson, E.
 3874 Katzenelson, E.
 6709 Katzenelson, E.
 5492 Katzenelson, J.
 3267 Kauc, L.
 4030 Kaudewitz, F.
 6335 Kauffman, H. E.
 9932 Kauffman, H. E.
 5503 Kaufman, D. D.
 10621 Kaufman, L.
 5227 Kaufmann, H.
 8478 Kaufmann, O. W.
 5855 Kaul, A. K.
 8823 Kaulova, J.
 3841 Kauppi, M.
 2705 Kaur, P.
 2706 Kaur, P.
 2705 Kaur, S.
 2706 Kaur, S.
 20562 Kausar, B.
 2376 Kautter, D. A.

Author index

7019 Kautter,D.A. (Contd)
7552 Kautter,D.A.
9683 Kautter,D.A.
9730 Kautter,D.A.
7974 Kavanagh,T.
7991 Kavanagh,T.
2786 Kaveh,H.
5501 Kavimandan,S.K.
6407 Kavimandan,S.K.
8872 Kavimandan,S.K.
3258 Kawabata,Y.
7453 Kawaguchi,H.
7454 Kawaguchi,H.
7455 Kawaguchi,H.
9153 Kawaguchi,H.
3403 Kawaguchi,M.
9530 Kawai,F.
3280 Kawai,H.
5976 Kawai,H.
1652 Kawai,K.
2538 Kawai,K.
8417 Kawai,K.
5863 Kawai,M.
3355 Kawaji,M.
9481 Kawakami,Y.
7600 Kawakita,T.
5741 Kawakubo,K.
3922 Kawamoto,H.
5710 Kawamoto,I.
9149 Kawamoto,I.
9150 Kawamoto,I.
5521 Kawamoto,S.
5917 Kawamoto,S.
7520 Kawamura,H.
841 Kawamura,S.
1401 Kawamura,T.
5757 Kawamura,T.
6075 Kawanishi,T.
7448 Kawano,K.
8200 Kawano,K.
6926 Kawasaki,T.
7120 Kawase,Y.
9196 Kawata,K.
827 Kawata,S.
4040 Kawata,T.
10176 Kawata,T.
5742 Kayamori,H.
10635 Kayer,H.S.
4614 Kayer,S.
6128 Kaylor,J.D.
1951 Kays,S.J.
489 Kayser,F.H.
2183 Kayser,F.H.
2974 Kayser,F.H.
6491 Kayser,F.H.
6860 Kayser,F.H.
10121 Kayser,F.H.
644 Kazakov,G.A.
5119 Kazakov,G.A.
5599 Kazakova,I.A.
1713 Kazal,H.L.
8439 Kazantsev,E.N.
8963 Kazawa,T.
745 Kazi,I.I.
5675 Kazmierczak,J.
9420 Keaney,M.M.
357 Keaster,A.J.
4611 Kecskes,M.
6531 Kedzia,W.
6532 Kedzia,W.
4475 Keeling,B.L.
7116 Keeling,B.L.
3710 Keen,N.T.
8617 Keen,N.T.
8618 Keen,N.T.
4616 Keenan,J.D.
7471 Keenan,J.D.
10094 Keenan,J.D.
52 Keenan,M.V.
1466 Keeney,D.R.
9942 Keep,E.
9037 Keepfer,L.M.
5777 Kees,U.
3970 Keevil,C.W.
5071 Keim,P.
2745 Keim,R.
8714 Keim,R.
5585 Keith,A.
879 Keith,D.D.
880 Keith,D.D.
881 Keith,D.D.
6753 Kellenberger,E.
8938 Keller,B.N.
9276 Keller,D.E.
5585 Keller,G.
7136 Keller,K.R.
7732 Keller,M.
4799 Keller-Juslen,C.
3805 Keller-Schierlein,W.
7436 Keller-Schierlein,W.
1421 Keller-Schierlein,W.K.
1424 Kellett,M.
10623 Kelley,L.M.
7261 Kelley,W.D.
1604 Kelling,C.L.
8223 Kelly,B.F.
8719 Kelly,C.R.
5041 Kelly,C.T.
4109 Kelly,D.P.
4689 Kelly,D.P.
9920 Kelman,A.
8255 Kelso,J.A.
8329 Kelstrup,J.
6076 Kemp,G.C.
9863 Kemp,W.G.
9661 Kemper,D.
6312 Kempton,R.J.
10635 Kendal,A.P.
8594 Kendlbacher,R.
10032 Kenjo,Y.
9447 Kenne,L.
3402 Kennedy,B.H.
926 Kennedy,B.P.C.
6008 Kennedy,B.P.C.
5080 Kennedy,E.H.
7655 Kennedy,E.H.
7629 Kennedy,E.P.
6910 Kennedy,F.S.
8597 Kennedy,J.
1620 Kennedy,J.F.
8583 Kennedy,K.
2511 Kennedy,L.D.
6787 Kenner,C.T.
4732 Kenny,C.M.
6340 Kenren,R.H.
4380 Kenten,R.H.
5023 Keogh,M.F.
4312 Keogh,R.
2067 Keogh,R.G.
10211 Kereluk,K.
4793 Kergomard,A.
5714 Kergomard,A.
5714 Kergomard,G.
861 Kerjan,P.
3707 Kerkenaar,A.
3708 Kerkenaar,A.
2401 Kerlan,C.
9460 Kern,D.L.
2124 Kern,E.R.
5999 Kernacova,B.
422 Kerner-Gang,W.
4179 Kerner-Gang,W.
4344 Kernkamp,M.F.
8659 Kernkamp,M.F.
3456 Kerr,A.
5991 Kerr,A.
6941 Kerr,I.
6489 Kerridge,D.
6848 Kerschler,L.
351 Kerschner,E.
1452 Kershaw,M.A.
9199 Kershaw,M.A.
10435 Kershaw,M.A.
6598 Kershner,A.S.
2504 Kersters-Hilderson,H.
2505 Kersters-Hilderson,H.
856 Kervabona,A.
7642 Kervabona,A.
8875 Kessel,U.
117 Kessick,M.A.
9304 Kessin,R.
8983 Kessler,H.-J.
6401 Kestemont,P.
1014 Ketrings,D.L.
8052 Kettner,M.
8322 Keune,H.
6546 Keusch,G.T.
197 Key,A.B.
4229 Keys,J.E.
2116 Khadse,B.G.
8710 Khakijari,P.V.
6040 Khalafalla,S.M.
8482 Khalafalla,S.M.
5918 Khalil,N.A.
4744 Khalyapina,E.E.
1002 Khan,A.
1056 Khan,A.
4444 Khan,A.A.
346 Khan,A.M.
1028 Khan,A.M.
1056 Khan,A.M.
2063 Khan,A.M.
3634 Khan,A.M.
1015 Khan,A.R.
1087 Khan,I.U.
2909 Khan,K.A.
1056 Khan,M.W.
2681 Khan,M.W.
7146 Khan,M.W.
2958 Khan,R.H.
3701 Khan,R.H.
5577 Khan,R.H.
8073 Khan,R.H.
3600 Khan,S.N.
6273 Khan,S.R.
454 Khan,S.U.
4710 Khanina,G.F.
9882 Khann,R.N.
9915 Khanna,K.K.
6930 Khanna,M.
327 Khanna,R.N.
3558 Khanna,R.N.
8277 Khanolkar,S.R.
2098 Kharats,K.S.
5505 Kharchenko,S.N.
8751 Khare,K.B.
7504 Khare,M.
4484 Khare,M.N.
4523 Khare,M.N.
3283 Kharitononkov,I.G.
5866 Kharitononkov,I.G.
5767 Khassan Ali,R.K.
263 Khatri,H.L.
7876 Khatskevich,L.K.
8801 Khatsua,D.C.
5825 Khavkin,T.N.
2262 Khazipov,N.Z.
5326 Khera,A.S.
1965 Kherata,R.B.S.
4463 Kherata,R.B.S.
5507 Khimerik,T.J.
8934 Khimerik,T.J.
8310 Khmel'nitskaya,D.L.
442 Khodakova,R.N.
2888 Khodortsev,I.P.
417 Khodos,S.F.
9473 Khokhar,A.R.
5120 Khokhlov,A.S.
2496 Khokhlova,Y.M.
3691 Kholupyak,I.Yu.

Author index

- 7540 Khomenko, N. A.
 7905 Khomyakova, K. G.
 6015 Khoo, H. E.
 2564 Khor, G. L.
 8330 Khorana, H. G.
 3316 Khorshid, M. A.
 352 Khoshnow, Y. I. E.
 928 Khoury-Doughly, E.
 5635 Khripach, V. A.
 6233 Khripunova, E. F.
 8696 Khudair, M. A.
 2520 Khuller, G. K.
 8015 Khurana, A. S.
 8737 Khurana, S. M. P.
 6335 Khush, G. S.
 9932 Khush, G. S.
 6733 Kibbe, F. W.
 2600 Kibe, K.
 9632 Kibe, K.
 10424 Kida, H.
 6561 Kida, M.
 7360 Kidby, D.
 5821 Kidby, D. K.
 10620 Kidd, F. A.
 2486 Kido, T.
 3059 Kido, Y.
 376 Kiebach, H.
 398 Kiebach, H.
 4322 Kieckhefer, R. W.
 7760 Kiefer, H.
 724 Kiefer, L. A.
 3962 Kiehn, T. E.
 2576 Kielwein, G.
 5228 Kielwein, G.
 8481 Kielwein, G.
 8501 Kielwein, G.
 896 Kieninger, H.
 9505 Kieninger, H.
 3392 Kiermeier, F.
 8563 Kiermeier, F.
 6819 Kierstan, M.
 5690 Kierstead, R. W.
 78 Kieslich, K.
 2535 Kieslich, K.
 4146 Kieslich, K.
 10013 Kiesling, R. L.
 3917 Kiessig, R.
 4254 Kiessling, K. -H.
 4579 Kigel, N. F.
 2531 Kih, K.
 915 Kikuchi, M.
 916 Kikuchi, M.
 8334 Kikuchi, M.
 8335 Kikuchi, M.
 4803 Kikuchi, S.
 7004 Kikuchi, T.
 7703 Kikuchi, T.
 7704 Kikuchi, T.
 7074 Kikuchi, Y.
 7362 Kikugawa, C. A.
 8528 Kiladse, A.
 134 Kilara, A.
 7002 Kilara, A.
 6492 Kilburn, J. O.
 6397 Kiler, G. A.
 8007 Kiler, G. A.
 7116 Kilen, T. C.
 10246 Kileso, V. A.
 3171 Kilian, M.
 3790 Kilkh, S. F.
 8691 Kilpatrick, R. A.
 6617 Kim, B. J.
 5776 Kim, B. R.
 2483 Kim, C. H.
 6855 Kim, E. K.
 7868 Kim, K. S.
 2782 Kim, S. K.
 5328 Kim, S. K.
 7951 Kim, W. K.
 10609 Kim, W. K.
 8332 Kimer, B.
 5943 Kimura, A.
 4273 Kimura, H.
 5870 Kimura, I.
 9353 Kimura, K.
 9383 Kimura, K.
 9412 Kimura, K.
 5660 Kimura, M.
 7 Kimura, T.
 1503 Kimura, T.
 5757 Kimura, T.
 3076 Kinashi, H.
 3077 Kinashi, H.
 1456 Kincannon, D. F.
 2298 Kincannon, D. F.
 6213 Kincer, H. C.
 9260 King, A.
 8553 King, A. D. Jr.
 7506 King, J. D.
 1866 King, J. E.
 7898 King, J. E.
 6103 King, J. O. L.
 10496 King, J. S.
 1647 King, M. -T.
 2086 King, P. S.
 24 King, R. W.
 5526 King, S. D.
 8281 King, S. D.
 4369 King, T. H.
 5395 King, T. H.
 632 King, T. J.
 2421 King, T. J.
 3807 King, T. J.
 4029 Kingma, J.
 956 Kingsland, G. C.
 5259 Kingston, D. G. I.
 5544 Kini, R. P.
 1786 Kinkel, H. J.
 5254 Kinkel, H. J.
 7049 Kinkel, H. J.
 8123 Kinnick, M. D.
 3217 Kinoshita, S.
 3367 Kinoshita, S.
 3369 Kinoshita, S.
 2271 Kinoshita, T.
 7315 Kinoshita, T.
 9566 Kinsella, J. E.
 925 Kinsella, J. E.
 1656 Kinsella, J. E.
 1097 Kinsey, M. G.
 4731 Kintaka, K.
 4750 Kintaka, K.
 4760 Kintaka, K.
 6568 Kintaka, K.
 7438 Kinumaki, A.
 7443 Kinumaki, A.
 1584 Kinyon, J. M.
 5860 Kiobrowski, J.
 8980 Kiraly, J.
 3195 Kiraly, K.
 3534 Kiraly, Z.
 10311 Kirby, J. P.
 10344 Kirby, J. P.
 9726 Kiredjian, M.
 2574 Kirikova, M.
 7579 Kirilenko, T. S.
 9167 Kirillov, L. V.
 824 Kirillova, L. M.
 22 Kirillova, N. F.
 2457 Kirillova, N. F.
 419 Kirk, T. K.
 4174 Kirk, T. K.
 6403 Kirk, T. K.
 2106 Kirke, P. A.
 8969 Kirke, P. A.
 4290 Kirkham, D. S.
 4510 Kirkiacharian, B. S.
 5578 Kirkova, Z. S.
 9903 Kirkpatrick, J. D.
 7166 Kirkun, J.
 10259 Kirkwood, B. R.
 688 Kirsch, E. J.
 1526 Kirsch, H.
 94 Kirsop, B. H.
 5170 Kirsop, B. H.
 8279 Kirsop, B. H.
 9510 Kirsop, B. H.
 1700 Kirster, K.
 2631 Kirszenbaum, M.
 8051 Kirven, L. A.
 9384 Kis, Z.
 1324 Kisch, A. L.
 5304 Kiselev, I. I.
 5597 Kiselev, V. K.
 3878 Kiseleva, V. I.
 6485 Kishi, H.
 7434 Kishi, T.
 9124 Kishi, T.
 9125 Kishi, T.
 3279 Kishigami, T.
 767 Kishimoto, M.
 5163 Kishimoto, M.
 4168 Kishimoto, N.
 5850 Kishko, J. G.
 8449 Kishkovskaya, S. A.
 5047 Kishore, G.
 1077 Kishore, H.
 3559 Kishore, H.
 4403 Kishore, V.
 9084 Kislova, T. A.
 9828 Kispatic, J.
 9829 Kispatic, J.
 9873 Kispatic, J.
 5785 Kispert, R. G.
 5680 Kiss, G.
 6125 Kiss, I.
 4773 Kisselev, L. L.
 957 Kist, M.
 2039 Kistler, B. R.
 3612 Kistler, B. R.
 3232 Kisumi, M.
 8321 Kisumi, M.
 1672 Kitada, M.
 9472 Kitagawa, N.
 1445 Kitagawa, T.
 8200 Kitagawa, T.
 9160 Kitagawa, T.
 16 Kitahara, K.
 5741 Kitahara, N.
 4806 Kitahara, S.
 5717 Kitahara, T.
 4807 Kitame, F.
 687 Kitamura, H.
 3860 Kitamura, H.
 5024 Kitamura, J.
 1272 Kitamura, J.
 4731 Kitano, K.
 4750 Kitano, K.
 4751 Kitano, K.
 4752 Kitano, K.
 4760 Kitano, K.
 6568 Kitano, K.
 5719 Kitao, C.
 6640 Kitao, C.
 9139 Kitao, C.
 10377 Kitao, C.
 35 Kitaoka, S.
 7599 Kitaoka, S.
 9355 Kitaoka, S.
 9280 Kite, P. E.
 3281 Kito, M.
 6865 Kitto, B.
 5121 Kitto, G. B.
 9597 Kiuchi, K.
 2552 Kiyohara, H.
 1632 Kiyohara, T.
 6337 Kiyomoto, R. K.
 4341 Kiyosawa, S.
 3180 Kiyotani, K.
 4094 Kizuki, K.

Author index

- 8313 Kjaergaard, L.
5517 Kjoller, A.
4579 Kjul'din, A. A.
8430 Klaar, M.
4171 Klages, U.
9528 Klain, N. P.
9529 Klain, N. P.
900 Klamann, E.
8455 Klamann, E.
247 Klapper, D. G.
3756 Klastersky, J.
10261 Klastersky, J.
8550 Klaus, D. G.
3080 Klaus, S.
5635 Klebanovich, I. B.
6106 Kleeberger, A.
6993 Kleeberger, A.
6084 Kleickmann, A.
9936 Kleijer, G.
6084 Klein, D.
8869 Klein, D. A.
6771 Klein, H.
6884 Klein, J. -P.
4883 Klein, R. D.
6581 Klein, R. D.
5126 Kleinerová, E.
6943 Kleinig, H.
1420 Kleinkauf, H.
3806 Kleinkauf, H.
518 Kleinschmidt, W. J.
1523 Kleinschroth, E.
3923 Kleinschroth, E.
3147 Kleist, H. U.
5621 Klemme, J. -H.
8935 Klemme, J. -H.
3834 Klenowska, Z.
7756 Kleters, G.
1450 Kleven, S. H.
7159 Klewitz, R.
138 Kleyn, D. H.
8861 Kliejunas, J. T.
7915 Klien, M.
5373 Klier, W. M.
9029 Klimova, N. E.
9108 Klimova, N. E.
952 Kling, H. F.
953 Kling, H. F.
5352 Klinger, J.
1930 Klingner, A. E.
4277 Klipstein, F. A.
333 Klisiewicz, J. M.
7934 Klisiewicz, J. M.
9889 Klisiewicz, J. M.
7502 Kljushnikova, T. M.
1236 Klocking, H. P.
5342 Klos, E. J.
3394 Klos, J.
3556 Klossowska, E.
4814 Kluepfel, D.
4723 Kluge, R. M.
3532 Kluge, S.
7936 Kluge, S.
2745 Klure, L. J.
3510 Klure, L. J.
6240 Klure, L. J.
4100 Klyosov, A. A.
4101 Klyosov, A. A.
5964 Klyosov, A. A.
7644 Klyosov, A. A.
8377 Klyosov, A. A.
8378 Klyosov, A. A.
9076 Klyosov, A. A.
2262 Klyuchnikova, V. M.
232 Krieciak, S.
3228 Knackmuss, H. -J.
8943 Knackmuss, H. -J.
5481 Knauss, J. F.
4197 Knaut, T.
7776 Kneebone, L. R.
5762 Kneifel, H.
1211 Knez, E.
7791 Knight, E. F.
6802 Knight, E. Jr.
7846 Knight, P. A.
4002 Knight, S. T.
9942 Knight, V. H.
3352 Knights, A. J.
1868 Knoke, J. K.
5322 Knoke, J. K.
6916 Knosel, D.
6562 Knothe, H.
8052 Knothe, H.
2536 Knowles, C. J.
8371 Knowles, H. Jr.
3644 Knowles, R.
5499 Knowles, R.
10057 Knowles, R.
10019 Knox, M. D. E.
4816 Knox, N. G.
6280 Knox-Davies, P. S.
2517 Knutson, C. A.
1306 Ko, H. L.
5139 Ko, K. H.
1903 Ko, W. H.
5358 Ko, W. H.
7946 Ko, W. H.
9931 Ko, W. H.
4049 Kobay, Y.
2474 Kobashi, M.
1633 Kobata, A.
9041 Kobayashi, G. S.
70 Kobayashi, A.
71 Kobayashi, A.
10168 Kobayashi, A.
3903 Kobayashi, F.
3272 Kobayashi, H.
5723 Kobayashi, H.
7688 Kobayashi, H.
7705 Kobayashi, K.
8429 Kobayashi, K.
837 Kobayashi, M.
889 Kobayashi, M.
3071 Kobayashi, M.
5917 Kobayashi, M.
6905 Kobayashi, M.
7626 Kobayashi, M.
3311 Kobayashi, S.
6594 Kobayashi, S.
55 Kobayashi, T.
56 Kobayashi, T.
2463 Kobayashi, T.
4087 Kobayashi, T.
5100 Kobayashi, T.
5101 Kobayashi, T.
5893 Kobayashi, T.
4265 Kobbe, B.
7076 Kobbe, B.
7832 Kobbe, B.
6852 Koblitz, H.
169 Koburger, J. A.
10407 Kobus, M.
609 Kobzieva, S. N.
3394 Koc, T.
7537 Koch, A. L.
249 Koch, E.
135 Koch, E. J.
776 Koch, H.
3832 Koch, H.
9626 Koch, N.
4712 Koch, P.
1373 Kochetkova, G. V.
4810 Kochetkova, G. V.
9131 Kochetkova, G. V.
10361 Kochetkova, G. V.
10362 Kochetkova, G. V.
7458 Kochetov, A. K.
5975 Kochetov, G. A.
4773 Kochkina, L. L.
3835 Kocinski, W.
4008 Kociskova, B.
4929 Kocka, F. E.
5152 Kocor, M.
7715 Kocot, M.
8372 Kocouren, J.
9055 Kodaira, R.
70 Kodaira, S.
71 Kodaira, S.
7085 Kodama, H.
7561 Kodama, T.
10563 Kodama, T.
10564 Kodama, T.
2983 Kodkind, G. Kh.
9959 Kodmelaar, R. W.
7825 Koehler, P. E.
330 Koenig, R.
9750 Koenig, R.
6402 Koenigs, J. W.
7435 Koenuma, M.
10381 Koenuma, M.
7456 Koert, J. M.
8798 Koffman, W.
4225 Koffschoten, G. A.
1458 Kofler, W.
2476 Koga, H.
6233 Kogan, E. D.
5582 Kogan, E. M.
3864 Koganovsky, A. M.
7361 Koh, F. S.
3365 Koh, H. -S.
8889 Kohler, D. H.
8976 Kohler, H.
75 Kohler, W.
9470 Kohler, W.
2123 Kohler, B.
3386 Kohler, J.
2189 Kohler, M.
3205 Kohler, R.
3206 Kohler, R.
498 Kohlmann, F. W.
1612 Kohn, R. R.
3985 Kongsaka, K.
1434 Kohsaka, M.
4812 Koide, Y.
2709 Koike, H.
10537 Koike, M.
2333 Koivo, A. J.
10049 Koivari, S.
1387 Koizumi, K.
2251 Koizumi, K.
2261 Koizumi, K.
2270 Koizumi, K.
5704 Koizumi, K.
5705 Koizumi, K.
3361 Koizumi, T.
102 Kojima, M.
3399 Kojima, M.
3722 Kojima, M.
7802 Kojima, M.
2224 Kokan, A.
8091 Kokel, B.
5399 Kokkalos, T. I.
4979 Kokkor, E. G.
5201 Kokoczka, P. J.
3816 Kokodziejczyk, P.
8421 Kolassa, H.
1646 Kolattukudy, P. E.
8526 Kolb, H.
5005 Koldovsky, P.
4129 Kolebrander, P. E.
2628 Kolesnichenko, T. S.
5075 Kolesnikova, I. G.
10223 Kolesnikova, N. S.
6063 Kolesova, V. N.
10637 Kolikov, V. M.
3331 Kolker, I. I.
3165 Koller, W.
6735 Koller, W.
4320 Kollmorgen, J. F.
4525 Kollmorgen, J. F.
7225 Kollmorgen, J. F.

Author index

- 8296 Kclmark, H. G.
 3142 Kolmos, H. J.
 2449 Kolodzeiskaya, M. V.
 8352 Kłodzeiskaya, M. V.
 639 Kolosov, M. N.
 4149 Kolozsvary, A.
 8439 Koltpakchi, A. P.
 10593 Koltstad, R. A.
 8792 Koltz, S. J.
 2823 Koltz, S. O.
 600 Koltsova, E. V.
 2193 Koltsova, E. V.
 4756 Koltsova, E. V.
 4834 Kolyanova, I. S.
 9424 Kolygina, T. S.
 6088 Komagata, K.
 1203 Komarmy, L.
 8348 Komarova, G. I.
 9131 Komarova, G. N.
 7637 Komatsu, A.
 7638 Komatsu, A.
 7639 Komatsu, A.
 7685 Komatsu, A.
 8369 Komatsu, A.
 9055 Komatsu, K.
 7363 Komersova, I.
 5467 Komiyar, K.
 6940 Komiyama, K.
 8416 Komiyama, K.
 8420 Komiyama, K.
 9464 Komiyama, K.
 4495 Komkov, L. Y.
 8638 Kommedahl, T.
 8639 Kommedahl, T.
 1377 Kommunarskaya, A. D.
 5753 Komori, T.
 7440 Komori, T.
 4819 Komori, T. - A.
 1719 Komorowski, B.
 1308 Kompanets, I. S.
 5070 Komuniecki, P.
 53 Kon, Y.
 54 Kon, Y.
 866 Kon, Y.
 7448 Konaka, R.
 5128 Konda, Y.
 4330 Kondaiah, A.
 491 Kondo, E.
 2301 Kondo, E.
 10410 Kondo, E.
 5708 Kondo, H.
 9356 Kondo, H.
 9481 Kondo, H.
 7293 Kondo, I.
 7294 Kondo, I.
 8050 Kondo, I.
 8944 Kondo, I.
 3342 Kondo, K.
 3348 Kondo, K.
 5151 Kondo, K.
 642 Kondo, S.
 885 Kondo, S.
 1413 Kondo, S.
 5749 Kondo, S.
 6641 Kondo, S.
 9462 Kondo, S.
 10357 Kondo, S.
 5741 Kondo, Y.
 2954 Kondrat, V. V.
 5539 Kondratieva, T. F.
 10317 Kondratyeva, O. V.
 9138 Konev, Y. E.
 6531 Koniar, H.
 6532 Koniar, H.
 8411 Konicek, J.
 10293 Konig, B.
 5762 Konig, W. A.
 2644 Konigsberg, W. H.
 7455 Konishi, M.
 4408 Konno, K.
 3831 Konnov, N. P.
 5661 Kono, Y.
 7962 Kono, Y.
 1434 Konomi, T.
 1415 Konomi, Y.
 2449 Konoplich, L. A.
 7502 Konotop, G. I.
 2530 Konova, L. V.
 2962 Konowalchuk, J.
 4672 Konowalchuk, J.
 7089 Konowalchuk, J.
 8288 Konowalchuk, J.
 1725 Konrad, H.
 5336 Kontas, D. G.
 4376 Kontaxis, D. G.
 9906 Kontaxis, D. G.
 6075 Konuma, H.
 7218 Kook Hwang, B.
 2143 Kooshkabadi, H.
 7904 Koot-Gronsveld, E. A. M.
 1819 Kopacka, B.
 222 Kopelman, I. J.
 3429 Koplik-Kovacz, E.
 1323 Koppel, G. A.
 8123 Koppel, G. A.
 5005 Koprowski, H.
 8052 Kopsova, D.
 10407 Korbecki, M.
 10641 Korbecki, M.
 1374 Korchagin, V. B.
 2164 Korchagin, V. B.
 2230 Korchagin, V. B.
 8138 Korchagin, V. B.
 9098 Korchagin, V. B.
 10319 Korchagin, V. B.
 10206 Korczynski, M. S.
 8298 Kordova, N.
 8496 Koreckova, J.
 9809 Koric, B.
 8112 Korkeala, H.
 10094 Kormi, I.
 4828 Kornfeld, S.
 8733 Kornland, W. C.
 5153 Kornman, K. S.
 465 Korobushkina, E. D.
 9143 Koroleva, T. A.
 6611 Koroleva, V. G.
 4148 Koronelli, T. V.
 4650 Koropachev, V. A.
 3335 Korotyayeva, A. I.
 2654 Korovina, V. P.
 4271 Korovkina, G. V.
 10074 Korte, F.
 10601 Korts, D. C.
 6532 Kortus, M.
 9043 Korzeniowski, O. M.
 10271 Korzeniowski, P. M.
 61 Korzinkina, N. A.
 3899 Kos, L.
 9619 Kosar, K.
 7596 Koshcheenko, K. A.
 893 Koshel, M. I.
 8938 Koshel, M. I.
 9551 Koshev, A.
 5138 Koshitani, H.
 7453 Koshiyama, H.
 27 Kosikowski, F. V.
 10608 Kossen, N. W. F.
 9766 Kossil, L.
 2551 Kossior, L. A.
 7613 Kossior, L. A.
 6141 Kostansek, E. C.
 9924 Kostic, B.
 2430 Kostina, A. M.
 3045 Kosturkiewicz, Z.
 8216 Kostyaev, V. Ya.
 2434 Kostynkevich, L. I.
 8587 Kosuge, T.
 9712 Kosuge, Y.
 7322 Kosugi, M.
 7362 Kotabe, S. E.
 1392 Kotani, H.
 5279 Kotani, H.
 864 Kotani, S.
 4063 Kotani, S.
 1223 Kotani, T.
 8812 Kotasthane, S. R.
 1927 Kothath, N. S.
 2002 Kothath, N. S.
 3485 Kothath, N. S.
 5591 Kotljak, M. N.
 939 Kotljars, A. N.
 3878 Kotov, V. K.
 5338 Kotova, V. V.
 741 Kotula, A. W.
 6079 Kotula, A. W.
 7015 Kotula, A. W.
 9576 Kotula, A. W.
 5687 Kotula, W.
 8850 Kotze, J. M.
 4567 Koucheiki, H. K.
 4568 Koucheiki, H. K.
 6805 Koukol, R. C.
 2743 Koul, M. L.
 9872 Kouyeas, H.
 9992 Kouyeas, H.
 2989 Kouyoumdjian, S.
 9034 Kouyoumdjian, S.
 242 Kovacs, F.
 3146 Kovacs, F.
 2797 Kovacs, M.
 1740 Kovacs, P.
 6470 Kovacs-Proszta, G.
 2155 Koval'chenko, N. D.
 905 Koval, E. Z.
 5507 Koval, E. Z.
 6866 Kovaleva, G. G.
 101 Kovalevich, L. S.
 808 Kovats, J.
 8315 Kovats, J.
 439 Kowalenko, C. G.
 440 Kowalenko, C. G.
 892 Kowalewski, J.
 6531 Kowalewski, Z.
 6532 Kowalewski, Z.
 324 Kowalska, A.
 8716 Kowalska, A.
 869 Kowalski, J.
 870 Kowalski, J.
 5044 Kowalski, J. B.
 5907 Koyama, J.
 5654 Koyama, K.
 4812 Koyama, Y.
 6606 Koyama, Y.
 9135 Koyama, Y.
 7866 Koyeas, H.
 7448 Koyogku, Y.
 3793 Kozak, J.
 425 Kozhevin, P. A.
 4556 Kozhevin, P. A.
 6639 Kozhevin, P. A.
 6639 Kozhevina, L. S.
 6890 Kozlov, L. V.
 4612 Kozlova, I. A.
 5724 Kozlova, N. V.
 5190 Kozlova, V. K.
 4847 Kozlowski, K.
 5002 Kozlowski, T. T.
 1698 Kozmicki, S.
 7294 Kozukue, H.
 8050 Kozukue, H.
 8944 Kozukue, H.
 2167 Kraan, H. P. M.
 4758 Kradolfer, F.
 9594 Kraeger, S. J.
 7766 Kraft, A. A.
 9677 Kraft, A. A.
 1854 Kraft, J. M.
 3894 Kraft-Kugler, K.
 466 Krajincanics, B. V.

Author index

- 8630 Krajny, P.
8797 Krajny, P.
8823 Kralova, V.
10369 Kralovcova, E.
7174 Kralovic, J.
8823 Kralovic, J.
9686 Kramer, A.
3107 Kramer, F. J.
7447 Kramer, J.
7079 Kramer, K. J.
7080 Kramer, K. J.
3128 Kramer, R.
9439 Kramer, V.
1459 Krannich, K.
3307 Kranz, D. M.
9103 Kranz, D. M.
252 Kranz, J.
4383 Kranz, J.
9747 Kranz, J.
7402 Krasemann, C.
9096 Krasemann, C.
10288 Krasemann, C.
10637 Krasil'nikov, I. V.
2977 Krasnec, B. L.
61 Krasnov, L. A.
9091 Krasnov, T. P.
10312 Krasnov, T. P.
9027 Krasnowolski, S.
4401 Kratchanova, B.
743 Kraus, H.
2184 Kraus, L. L.
3990 Kraus, S. J.
4270 Kravchenko, L. V.
3087 Kravets, I. D.
6668 Kravets, I. D.
4634 Krcmery, V.
8052 Krcmery, V.
3159 Krech, U.
7648 Krechowski, M.
7844 Kreeftenberg, J. G.
896 Kreil, H.
5103 Kreiser, W.
5104 Kreiser, W.
4784 Kremen, A.
8984 Kremleva, O. B.
3396 Krepel, J. M.
4004 Kreula, M.
4833 Kreuter, J.
6515 Kreutzberger, A.
5738 Kreuzig, F.
4007 Krichevskaya, G. I.
1683 Krichevsky, M. I.
10507 Krichevsky, M. I.
8031 Kriel, M. M.
4428 Krikun, J.
8783 Kring, J. B.
3500 Krishna Rao, N. S. R.
6043 Krishna, B. M.
7000 Krishna, B. M.
9977 Krishna, V. R.
312 Krishnamani, M. R. S.
4437 Krishnamurthy, G. V.
8485 Krishnamurthy, P. S.
9917 Krishnamurthy, S.
1033 Krishnasamy, V.
1761 Krishnaswamy, M. A.
5223 Krishnaswamy, M. A.
3481 Krishnaswamy, V.
218 Krispien, K.
7464 Krispien, K.
2685 Krivchenko, V. I.
44 Krivova, A. Yu.
4008 Krizanov, O.
4149 Krizkov, L.
5616 Krizkov, L.
5617 Krizkov, L.
147 Kroger, M.
7776 Kroger, M.
5847 Krosgaard-Jensen, A.
170 Krol, B.
4209 Krol, B. (Contd)
4240 Krol, B.
5152 Krol, J.
3335 Krolchenko, T. P.
4344 Kroll, R.
8659 Kroll, R.
7425 Kromendy, B.
4643 Kromery, V.
5584 Kronenberg, L. H.
2259 Kropp, H.
4802 Krouglikova, L. F.
3215 Krudy, E. S.
5744 Krueger, W. C.
5604 Kruger, D.
1668 Kruger, G.
8257 Kruger, G.
4179 Kruger, O.
3894 Kruger, W.
5530 Kruger, W.
9119 Krugh, R. R.
4801 Kruglikova, L. F.
6586 Krukler, T. L.
5962 Krul, J. M.
8227 Krul, J. M.
8228 Krul, J. M.
9180 Krul, J. M.
2625 Krumperman, P. H.
9813 Krupinsky, J. M.
5260 Krusch, U.
1744 Kruse, K. J.
2586 Kruse, K. J. - P.
5606 Krutul, H.
450 Krylova, L. N.
367 Krylova, N. V.
1098 Krylova, N. V.
4390 Krylow, A. W.
6789 Krynski, S.
6990 Krynski, E. P.
5102 Kryutchenko, E. G.
3394 Krzeminska, B.
3406 Krzeminska, B.
8413 Krzeminski, Z.
3406 Krzemionka, R.
7793 Krzysik, K.
6803 Krzywy, T.
7588 Krzywy, T.
9438 Kubackova, M.
7848 Kubica, J.
2263 Kubo, A.
10248 Kubo, O.
6149 Kubo, S.
4820 Kubo, T.
1434 Kubochi, Y.
8539 Kubokura, Y.
8183 Kubota, K.
1797 Kubzdel, Z.
1999 Kuc, J.
5347 Kuc, J.
6183 Kuc, J.
7954 Kuc, J.
7961 Kuc, J.
7678 Kucan, E.
8635 Kucharek, T. A.
8811 Kucharek, T. A.
1258 Kucharski, S.
1259 Kucharski, S.
3955 Kucher, R.
8310 Kucher, R. V.
1162 Kucherenko, V. I.
2926 Kuchler, R.
9311 Kuchler, R. J.
1405 Kudelski, A.
10379 Kudryashova, N. G.
9257 Kudryavtsev, A. A.
10531 Kudryavtsev, A. P.
5587 Kuehne, R. W.
7440 Kuger, S.
612 Kugelman, M.
613 Kugelman, M.
614 Kugelman, M.
615 Kugelman, M. (Contd)
6106 Kuhbauch, W.
2049 Kuhlman, E. G.
2835 Kuhlman, E. G.
5453 Kuhlman, E. G.
3128 Kuhlmann, H.
364 Kuhn, C. W.
1847 Kuhn, C. W.
2778 Kuhn, C. W.
7196 Kuhn, C. W.
9770 Kuhn, C. W.
7834 Kuhn, G. O.
10497 Kuhn, G. R.
2971 Kuhn, H.
8786 Kuhn, P. J.
7507 Kuhn, H.
7827 Kuhnert, L.
6787 Kuhnley, L.
644 Kuimova, T. F.
5075 Kuimova, T. F.
5093 Kuimova, T. F.
8768 Kuipers, H. J.
4352 Kuipers, J.
4725 Kuipers, J. S.
4727 Kuipers, J. S.
10310 Kuipers, J. S.
47226 Kuipers, J. S.
1210 Kukhanova, M. K.
1382 Kukhanova, M. K.
3054 Kukhanova, M. K.
1819 Kuklinska, D.
579 Kukoljar, S.
2176 Kukoljar, S.
7722 Kukulinsky-Fuller, J. C.
849 Kula, M. - R.
3324 Kulaeva, I. S.
7646 Kulenev, V. S.
7643 Kulhara, D.
3898 Kulikov, A. V.
6685 Kulikov, A. V.
482 Kulikova, E. M.
9006 Kulikova, L. K.
7646 Kulish, E. A.
4834 Kulish, E. A.
5421 Kulkarni, S. N.
7331 Kulkarni, S. N.
8736 Kulkarni, S. N.
7950 Kulshrestha, V. P.
8651 Kulshrestha, V. P.
4520 Kumacheva, E. M.
5149 Kumagai, Y.
4168 Kumagai, H.
6833 Kumagai, H.
7712 Kumagai, H.
5155 Kumagai, M.
8880 Kumar, D. B.
8924 Kumar, D. B.
1888 Kumar, A.
5355 Kumar, D.
9864 Kumar, K.
5898 Kumar, L.
6407 Kumar, M. L.
5365 Kumar, P.
8951 Kumar, R.
1044 Kumar, S.
1889 Kumar, S.
9301 Kumar, S.
1888 Kumar, V. R.
9977 Kumari, K. N.
4134 Kumazawa, Y.
3589 Kumazawa, Z.
7807 Kume, T.
4799 Kumn, M.
10090 Kunta, U. S.
10428 Kunta, U. S.
7628 Kumura, K.
3366 Kunc, F.
5626 Kundsir, R. B.
2373 Kunicka-Goldfinger, W.
2556 Kunimatsu, M.

Author index

- 9358 Kunimi,Y.
 9359 Kunimi,Y.
 1903 Kunimoto,R.K.
 5358 Kunimoto,R.K.
 7946 Kunimoto,R.K.
 192 Kuninori,T.
 8433 Kunisaki,N.
 5723 Kunishima,M.
 1704 Kunkee,R.E.
 3358 Kunkee,R.E.
 2123 Kunkel,M.
 761 Kuno,H.
 9775 Kuno,H.
 7550 Kunst,F.
 2048 Kuntz,J.E.
 8859 Kuntz,J.E.
 10332 Kuntzel,H.
 10084 Kuntz,H.
 6484 Kuntz,L.J.
 10242 Kuo,C.-C.
 5902 Kuor,F.
 9437 Kuor,M.J.
 633 Kuor,S.-C.
 7220 Kuo,T.T.
 7713 Kupchik,G.J.
 6906 Kupriyanova,F.G.
 8395 Kuro,J.-Y.
 8183 Kurahashi,K.
 5406 Kramoto,T.
 1304 Kurashvily,V.E.
 2995 Kurashvily,V.E.
 6026 Kurata,H.
 5593 Kurata,T.
 3692 Kurath,P.
 4655 Kurath,P.
 974 Kurtackaja,Z.A.
 5518 Kurdish,I.K.
 8929 Kurdish,I.K.
 3010 Kureshi,L.A.
 8608 Kuriger,W.E.
 7440 Kurita,M.
 5687 Kurnatowska,A.
 2282 Kurochkin,E.P.
 5727 Kuroda,M.
 8431 Kuroda,M.
 8359 Kuronen,T.
 3903 Kurosawa,K.
 5593 Kurosawa,Y.
 2489 Kurosky,A.
 2491 Kurosky,A.
 2492 Kurosky,A.
 5086 Kurowski,W.M.
 885 Kuozumi,S.
 7837 Kurtz,H.J.
 7838 Kurtz,H.J.
 2394 Kurtzman,R.H.Jr.
 16 Kurushima,M.
 4089 Kurze,G.
 5193 Kurze,J.
 2165 Kurzynski,T.A.
 6885 Kusaka,T.
 55 Kusakabe,I.
 56 Kusakabe,I.
 3327 Kusano,G.
 7130 Kusano,S.
 740 Kuscho,D.
 9243 Kuscho,D.
 8016 Kuserk,F.T.
 8442 Kushnarev,V.M.
 2101 Kushner,D.J.
 4073 Kushner,D.J.
 10163 Kushner,D.J.
 4484 Kushwaha,L.S.
 4523 Kushwaha,L.S.
 8019 Kishwaha,R.K.S.
 6217 Kuster,K.
 6984 Kusuhara,N.
 7664 Kusunose,E.
 7664 Kusunose,M.
 5065 Kuswanto,K.
 4610 Kutzer,J.W.
 9328 Kuwabara,H.
 3365 Kuwahara,M.
 5146 Kuwahara,M.
 5147 Kuwahara,M.
 9450 Kuwahara,M.
 8960 Kuwahara,R.
 2177 Kuwahara,S.
 8960 Kuwahara,S.
 780 Kuwajima,T.
 4047 Kuwana,N.
 9426 Kuwana,N.
 6728 Kuwert,E.
 6729 Kuwert,E.
 4705 Kuzemenska,P.
 4724 Kuzemenska,P.
 3087 Kuzmich,M.K.
 6668 Kuzmich,M.K.
 4681 Kuznetsov,A.I.
 4791 Kuznetsov,V.D.
 7357 Kuznetsov,V.D.
 10223 Kuznetsov,V.D.
 9143 Kuznetsova,N.A.
 485 Kvasnikov,E.I.
 939 Kvasnikov,E.I.
 5131 Kvasnikov,E.I.
 5475 Kvasnikov,E.I.
 7502 Kvasnikov,E.I.
 10098 Kvasnikov,E.I.
 8365 Kvestadze,G.L.
 6719 Kwan,K.K.
 9192 Kwasniewska,A.K.
 9193 Kwasniewska,K.
 983 Kwolek,W.F.
 1804 Kwolek,W.F.
 1805 Kwolek,W.F.
 2158 Kwolek,W.F.
 2622 Kwolek,W.F.
 7814 Kwolek,W.F.
 9705 Kwolek,W.F.
 5126 Kybal,J.
 6749 Kybal,J.
 8200 Kyogoku,Y.
 5578 L'Vova,F.N.
 2357 La Motta,E.J.
 3152 La Motta,E.J.
 7820 La Prade,J.C.
 129 La Rocca,M.A.K.
 738 La Rocca,P.T.
 738 La Rocca,R.
 3997 Laban,P.
 5349 Labanauskas,C.K.
 9731 Labbe,R.G.
 6880 Labia,R.
 6900 Labia,R.
 7634 Labia,R.
 8156 Labia,R.
 8358 Labia,R.
 8368 Labia,R.
 8564 Labie,C.
 7809 Labouche,C.
 1782 Labuza,T.P.
 2591 Labuza,T.P.
 9109 Labza,D.
 3163 Lacey,J.
 4233 Lacey,J.
 7372 Lacey,R.W.
 10064 Lachance,R.A.
 175 Lachapelle,G.
 10450 Lacharme,J.
 2561 Lachica,R.V.F.
 8943 Lackner,H.
 7313 Lackner,M.
 2977 Lacko,I.
 7184 Lacok,P.
 8750 Lacok,P.
 9539 Lacova,M.
 2969 Ladd,J.-Y.
 459 Ladd,J.N.
 479 Lader,J.H.
 6265 Ladipo,J.L.
 7181 Ladipo,J.L.
 2469 Ladisch,M.R.
 9611 Ladisch,M.R.
 3655 Ladlie,J.S.
 86 Ladner,C.M.
 10006 Laemmlen,F.
 5115 Lafferty,R.M.
 7809 Lafont,P.
 1201 LaForce,F.M.
 126 Laforest,H.
 5369 Laghans,R.W.
 5985 Lagoda,A.A.
 135 LaGrange,W.S.
 4565 Lahav,N.
 323 Lai,M.
 5159 Laiho,P.
 5160 Laiho,P.
 5618 Laiko,A.V.
 5623 Laiko,A.V.
 5635 Lakhvich,F.A.
 312 Lakshmanan,M.
 3529 Lakshmann,M.
 5501 Lakshmi Kumari,M.
 8793 Lal,B.B.
 8794 Lal,B.B.
 7359 Lal,M.
 6356 Lal,S.
 5499 Lalander,R.
 6476 Lalko,G.
 4263 Lalor,J.H.
 6782 Lam,K.
 628 Lam,L.K.T.
 6595 Lamba,S.S.
 10911 Lambert,C.
 5960 Lambert,R.G.
 3694 Lambert,P.A.
 4779 Lambert-Techovsky,N.
 6115 Lambertini,F.
 1856 Lambhate,S.S.
 7856 Lambotte,P.
 146 Lame,H.
 185 Lame,H.
 10154 Lamikanra,A.
 10155 Lamikanra,A.
 2176 Lammert,S.R.
 4665 Lamotte,G.
 1301 Lampe,M.F.
 37 Lampen,J.O.
 633 Lampen,J.C.
 3304 Lampen,J.O.
 3312 Lampen,J.O.
 8382 Lampen,J.O.
 3157 Lamprecht,I.
 9945 Lamprecht,M.P.
 2280 Lampson,G.P.
 4112 Lamy,F.
 4013 Lamy,M.E.
 335 Lanar,A.F.
 4398 Lanar,A.F.
 9750 Lanar,A.O.
 6113 Lanari,D.
 2769 Lancaster,E.B.
 3108 Lance,J.C.
 1418 Lancini,G.C.
 2228 Lancini,G.C.
 10613 Land,G.A.
 10616 Land,G.A.
 1347 Landau,M.A.
 10426 Landi,S.
 3613 Landis,T.D.
 5450 Landis,T.D.
 8858 Landis,T.D.
 1320 Landor,D.
 6701 Landschoot,R.L.
 6034 Lane,A.G.
 7865 Lanetski,V.P.
 8053 Lanfalonis,L.
 8486 Lang,A.

Author index

- 4030 Lang, B.
8486 Lang, F.
1133 Lang, K. J.
7862 Lang, K. J.
5103 Lang, S.
5104 Lang, S.
8785 Langcake, P.
4320 Langdon, R. F. N.
10250 Lange, B. C.
4429 Lange, L.
7023 Lange, P.
2870 Lange-de la Camp, M.
9855 Langeberg, W. J.
8718 Langerfeld, E.
9415 Langerman, N.
7798 Langeveld, L. P. M.
9950 Langhans, R. W.
9636 Langille, J. E.
7431 Langley, D.
8460 Langley, W. H. Jr.
8480 Langlois, B. E.
8418 Langlykke, A. F.
3955 Langmaack, H.
5070 Langridge, W. H. R.
6832 Langsrud, T.
8547 Lanier, T. C.
5772 Lanneluc, B.
10306 Lanskaya, L. N.
3972 Lanz, W. W.
5139 Lanz, E.
3326 Lanzilotta, R. P.
9983 Lanzilotta, R. P.
1412 Lanzuel, F.
10558 Lapege, S. P.
5725 Lapchinskaya, O. A.
9779 Lapierre, H.
7415 LaPorte, D. C.
6304 Lapp, N. A.
891 Lappa, N. V.
3270 Lappert, M. F.
7087 Lappi, D. A.
3870 Lappo, R. L.
2622 Laprade, J. C.
5800 Lapteva, N. A.
6253 Lapwood, D. H.
6287 Lapwood, D. H.
6289 Lapwood, D. H.
3838 Larenaudie, B.
6904 Large, P. J.
1639 Largen, M.
6879 Laria, R.
8094 Larinova, T. V.
7909 Larios, J. F.
9143 Larkin, A. I.
4561 Larkin, E. P.
5784 Larkin, E. P.
9205 Larkin, E. P.
9484 Larkin, J. M.
8778 Larkin, N. L.
6466 Larocca, D.
161 Larpent, J. P.
6580 Larsen, C.
296 Larsen, E. C.
6380 Larsen, M. J.
9858 Larsen, P. O.
9859 Larsen, P. O.
10585 Larsen, S. A.
2542 Larsen, V. F.
3149 Larsen, V. F.
2548 Larson, P. K.
5967 Larson, T. J.
5968 Larson, T. J.
9000 Larsson, A.
5977 Larsson, P. O.
9318 Larsson, P. O.
8450 Larue, F.
4204 Lashkari, B. Z.
8411 Lasik, J.
4173 Laskin, A. I.
5444 Last, F. T.
3291 Lastovetskaya, L. V.
8438 Lastuvka, F.
3866 Lasztity, R.
9025 Lat, B. S.
7121 Latch, G. C. M.
361 Laterrot, H.
3561 Laterrot, H.
9946 Laterrot, H.
9948 Laterrot, H.
306 Latham, D. B.
4477 Latham, D. H.
10126 Lathe, R.
6230 Latif, A.
7781 Latinovic, V.
7152 Latore-Guzman, B. A.
5242 Latrille, L. L.
4635 Latrille, M. J.
6089 Latt, T. G.
2429 Latysheva, S. G.
4032 Latysheva, S. G.
10093 Lau, C. M.
7060 Laub, E.
10631 Laude, H.
10491 Laurell, G.
2964 Laurent, D.
9422 Laurinavichene, T. V.
2937 Lavallee, A.
661 Laver, W. G.
10460 Laveran, H.
7305 Laverdiere, M.
3540 Laville, E.
6202 Laviolette, F. A.
9107 Lavrentieva, G. I.
4681 Lavrov, S. V.
9056 Lavrova, M. F.
9114 Lavrova, M. F.
5471 Lavrova, N. V.
4944 Law, A. T.
1736 Law, B. A.
1739 Law, B. A.
5225 Law, B. A.
6062 Law, B. A.
9558 Law, B. A.
2079 Law, I. J.
8899 Law, I. J.
9694 Lawellin, D. W.
9695 Lawellin, D. W.
8902 Lawes, D. A.
4952 Lawhorn, B. K.
4666 Lawrence, F.
6760 Lawrence, J. V.
154 Lawrence, R. C.
7747 Lawrence, R. C.
9503 Laws, D. R. J.
3257 Lawson, C. J.
5983 Lawson, C. J.
6178 Lawson, R. H.
6179 Lawson, R. H.
8911 Lawson, T. L.
818 Lawton, W. D.
1008 Laximinarayana, P.
10489 Layne, J. S.
206 Layton, H.
4396 Layton, W. A.
2217 Lazar, V.
6605 Lazarevski, T.
4211 Lazarus, C. R.
1370 Laznikova, T. N.
9091 Laznikova, T. N.
10312 Laznikova, T. N.
3878 Lazorenko, N. F.
3390 Le Bars, D.
7833 Le Bars, J.
8747 Le Bars, J.
10240 Le Berre, J. -Y.
2495 Le Bras, G.
2442 Le Gall, J.
2443 Le Gall, J.
3243 Le Gall, J.
3244 Le Gall, J.
6945 Le Gall, J. (Contd)
8331 Le Gall, J.
5772 Le Garrec, Y.
519 Le Goff, S.
490 Le Goffic, F.
10125 Le Goffic, F.
7736 Le Graet, Y.
7737 Le Graet, Y.
9519 Le Mao, J.
1711 Le Patourel, G. N. J.
2912 Le Petit, J.
3661 Le Petit, J.
4111 Le P. H. D.
7123 Leach, C. M.
8637 Leach, C. M.
7205 Leach, L. D.
1425 Leach, M.
10352 Leach, M.
1733 Leach, R. D.
3212 Leach, R. H.
4409 Leach, S. S.
914 Leal, L.
6174 Leath, K. T.
4828 Leavitt, R.
9230 Lebeau, B.
4739 Lebedev, E. S.
4355 Lebedev, V. B.
5620 Lebedev, V. I.
6669 Lebedinsky, V. A.
4629 Lebek, G.
1998 Leben, C.
9858 Leben, C.
5250 Lebert, F.
9145 LeBlanc, B.
5681 Leblou, J.
9803 Leclant, F.
4871 Leclerc, H.
10126 Lecocq, J. P.
6401 Ledel, P.
5597 Ledeneva, N. A.
7565 Ledesma, O. V.
8479 Ledford, R. A.
1557 Ledger, W. J.
8626 Ledingham, R. J.
9677 Leer, B. B.
653 Leer, B. K.
5761 Leer, B. K.
6646 Leer, B. K.
9050 Leer, B. K.
10262 Leer, B. K.
7087 Leer, C. -L.
4277 Leer, C. -S.
8712 Leer, C. C.
3847 Leer, C. R.
3776 Leer, D. A.
7818 Leer, D. J.
9704 Leer, D. J.
6157 Leer, I. C.
9741 Leer, I. C.
9348 Leer, J.
1818 Leer, J. C.
6549 Leer, J. C.
9082 Leer, J. C.
9266 Leer, J. C.
7020 Leer, J. S.
3196 Leer, J. V.
8896 Leer, K. -K.
645 Leer, K. -U.
5943 Leer, L.
7326 Leer, L. H.
5267 Leer, L. S.
6131 Leer, L. S.
10599 Leer, M. R.
5896 Leer, S.
2444 Leer, S. -H.
2417 Leer, S. -L.
3269 Leer, S. -L.
9159 Leer, S. G.
8613 Leer, S. H.
1939 Leer, S. T.

Author index

- 6333 Lee, T. A. Jr.
8596 Lee, T. C.
347 Lee, T. H.
9605 Lee, T. H.
4000 Lee, W.
1203 Lee, W. - S.
4977 Lee, W. H.
6901 Lee, Y. C.
1656 Lee, Y. J.
178 Leela, T. R. K.
7667 Leer, J. C.
770 Lees, H.
558 Lees, T.
8091 Lefebvre, A.
3977 Legakis, N. J.
8275 Legakis, N. J.
7604 LeGall, J.
2969 Legendre, P.
1831 Leggato, F. W.
3375 Legler, F.
7139 Leglise, P.
1860 Lehman, P. S.
2035 Lehmann, P. F.
3791 Lehrer, R. L.
3700 Lehtonen, K.
7167 Leiber, E.
9200 Leich, H. H.
4549 Leightley, L. E.
10373 Lein, J.
3702 Leiner, J.
4185 Leininger, H. V.
1749 Leistner, L.
6083 Leistner, L.
6137 Leistner, L.
6138 Leistner, L.
7528 Leistner, L.
5048 Leiter, E. H.
4562 Leitgeb, S.
1327 Leitner, F.
9928 Lekes, J.
4054 Lekprayoon, C.
5215 Lelieveld, H. L. M.
8208 Lelieveld, H. L. M.
7458 Lelikov, V. L.
5690 LeMahieu, R. A.
6420 Lemaire, J. M.
892 Leman, J.
1718 Leman, J.
8518 Leman, J.
9700 Lemarinier, S.
3430 Lemieszek-Chodorowska, K.
3433 Lemieszek-Chodorowska, K.
5763 Lemke, J. R.
1229 Lemoine, A.
4665 Lemoine, J.
942 Lendvai, I.
2969 Leng, B. - M.
6289 Lennard, J. H.
790 Lennette, E. H.
793 Lennette, E. H.
1618 Lennette, E. H.
10191 Lennay, J. F.
5960 Lenoir, J.
9431 Lenoir, J.
2613 Lentz, C. P.
2911 Lentz, C. P.
10446 Lentz, C. P.
1910 Lentz, P. L.
9658 Lenz, M. K.
9659 Lenz, M. K.
9660 Lenz, M. K.
7341 Leon, M. E.
4919 Leonard, D. R.
9788 Leonard, K. J.
9671 Leonard, M. H.
1798 Leonard, S.
2617 Leonard, S.
1669 Leonard, T. J.
10265 Leong, S. S.
5502 Leoniak-Steinbrich, K.
7550 Lepesant-Kejziarova, J.
1364 Leplawy, M.
4282 Leppla, S. H.
221 Lerke, P. A.
4678 Lerner, A. M.
7633 Lerner, H. R.
2237 Lerner, L. E.
4743 Lerner, S. A.
4952 Lerner, S. R.
6248 Leroux, J. P.
3573 Leroux, P.
7761 Leroy, J. J.
330 Lesemann, D. - E.
6566 Lesgouarres, M. - T.
4963 Leshner, R. J.
3749 Lesiak, K.
5307 Lesic, R.
4667 Leslie, G. B.
9232 Lesman, N. I.
1624 Lesniak, W.
2396 Lesniak, W.
5860 Lesniak, W.
6796 Lesniak, W.
8384 Lesniak, W.
1834 Lesovoi, M. P.
8091 Lespagnol, C.
9639 Lessard, J. R.
3863 Lessel, T.
4848 Lesser, G.
2421 Lessinger, L.
8854 Lester, D. T.
9389 Lestrovaja, N. N.
8724 Letal, J. R.
9372 Letarte, R.
6490 Leth Bak, A.
8622 Leu, L. S.
8664 Leu, L. S.
8666 Leu, L. S.
8712 Leu, L. S.
10511 Leuchte, H. J.
1781 Leuchtenberger, A.
2075 Leuck, E. E.
7103 Leung, E.
2415 Leung, K. - H.
4136 Leupold, G.
4942 Lev, M.
2257 Levai, A.
6919 Levdikova, G. A.
4596 Levenko, B. A.
7684 Levenson, V. I.
8111 Leverdiere, M.
5859 Levetin, E.
7524 Levetzow, R.
9136 Levilov, M. M.
9725 Levin, J.
7768 Levin, R. E.
8350 Levin, R. E.
3255 Levin, Y.
3085 Levina, D. S.
5631 Levina, V. P.
9348 Levine, D. W.
212 Levinson, H. S.
526 Levinson, W.
2968 Levinson, W.
10272 Levison, M. E.
6206 Levitin, M. M.
600 Levitov, M. M.
2193 Levitov, M. M.
4756 Levitov, M. M.
5668 Levitov, M. M.
1705 Levitskaya, M. V.
436 Levkina, L. M.
5520 Levkina, L. M.
5291 Levner, M.
3509 Levy, D.
1640 Levy, H. R.
254 Levy, J.
2968 Levy, J. A.
4652 Levy, L.
8061 Levy, L.
2968 Levy, S. B.
1953 Lewellen, R. T.
2788 Lewellen, R. T.
7205 Lewellen, R. T.
9893 Lewellen, R. T.
5777 Lewenstein, A.
3394 Lewicka, J.
3406 Lewicka, J.
996 Lewis, A. C.
6342 Lewis, B. G.
9319 Lewis, C.
4053 Lewis, C. W.
10052 Lewis, D. H.
7700 Lewis, D. L.
10578 Lewis, J.
2030 Lewis, J. A.
2069 Lewis, J. A.
2871 Lewis, J. A.
8619 Lewis, J. A.
9757 Lewis, J. A.
6051 Lewis, J. E.
3964 Lewis, J. F.
2325 Lewis, M. J.
4162 Lewis, M. J.
9046 Lewis, M. J.
10090 Lewis, N. F.
2105 Lewis, S. A.
10549 Lewis, S. A.
1557 Lewis, W. P.
8785 Leworthy, D. P.
5611 Ley, F. J.
400 Lie, G.
4086 Lie, L. I.
4130 Liaaen-Jensen, S.
9468 Liaaen-Jensen, S.
9469 Liaaen-Jensen, S.
295 Liang, W.
8664 Liang, W. J.
10591 Liao, C. H.
3434 Liao, L. - L.
4217 Liat, L. B.
10301 LiBassi, G.
7818 Libbey, L. M.
6027 Libfeld, M.
1209 Libinzon, A. E.
6335 Librojo, V.
1234 Lichliter, W. D.
3394 Lichocinska, H.
2896 Lichtenstein, E. P.
5373 Lidar, L. A.
96 Lie, S.
8445 Lieberman, C. E.
8179 Lieberman, M. A.
10427 Lieberman, M. M.
1751 Liebetrau, B.
6987 Liebetrau, B.
7789 Liebold, J.
474 Lieberman, J. C.
2440 Liebova, I. M.
660 Liel, E.
8253 Liehr, W.
1189 Liemann, F.
8180 Lien, N. - K.
8176 Liesch, J. M.
4551 Liese, W.
5721 Lieseli, J. M.
618 Lietman, P. S.
10142 Lieu, F. Y.
8443 Lifshits, D. B.
10455 Lightsey, G. R.
9001 Likhoshvai, E. V.
2411 Likhstenshtein, G. I.
905 Likhstenshtein, V. N.
1583 Liljemark, W. F.
7493 Lillard, H. S.
18 Lillard, M. O.
983 Lillehoj, E. B.
1804 Lillehoj, E. B.
1805 Lillehoj, E. B.
2622 Lillehoj, E. B.

- 7814 Lillehoj, E. B. (Contd)
 9705 Lillehoj, E. B.
 7019 Lilly, T. Jr.
 9683 Lilly, T. Jr.
 10581 Lima, L.
 6779 Lim, D. V.
 8900 Lim, G.
 5901 Lim, H. C.
 7530 Lim, H. C.
 8939 Lim, H. C.
 9250 Lim, H. C.
 1227 Lim, M. I.
 7197 Lim, S. M.
 8616 Lim, S. M.
 2756 Lima, A.
 155 Limsowtin, G. K. Y.
 5218 Limsowtin, G. K. Y.
 7745 Limsowtin, G. K. Y.
 5902 Lin, C. H.
 592 Lin, L. J.
 4854 Lin, L. J.
 9832 Lin, L. P.
 7885 Lin, M. S.
 810 Lin, M. T.
 5268 Lin, M. T.
 5269 Lin, M. T.
 1506 Lin, S. D.
 3110 Lin, S. D.
 9248 Lin, S. H.
 7768 Lin, T. S.
 98 Lin, Y.
 6032 Linares, H.
 6474 Linblom, G. B.
 2288 Lincoln, T. A.
 6558 Linda, H.
 1565 Lindberg, A. A.
 7676 Lindberg, A. A.
 9036 Lindberg, A. A.
 2513 Lindberg, B.
 9447 Lindberg, B.
 10550 Lindberg, L. H.
 6830 Lindberg, P.
 10600 Lindblom, G. B.
 6920 Lindblom, M.
 3912 Linde, J.
 8185 Lindenbaum, S.
 4089 Linder, D.
 6119 Lindfeld, C. A.
 7606 Lindmark, R.
 2513 Lindqvist, B.
 2649 Lindroth, S.
 4279 Lindroth, S.
 8556 Lindroth, S.
 2549 Lindsay, R. C.
 10010 Lindsey, J. P.
 9366 Lindstedt, G.
 9366 Lindstedt, S.
 761 Lindsten, K.
 294 Line, R. F.
 844 Lineback, D. R.
 4937 Lines, D. R.
 267 Ling, S. M.
 3473 Ling, S. M.
 4313 Ling, S. M.
 8648 Ling, K. C.
 10610 Ling-Phie, Lu
 1778 Lingelbach, H.
 5773 Lingelser, J.
 3363 Lingens, F.
 4171 Lingens, F.
 5196 Lingens, F.
 5197 Lingens, F.
 7656 Lingens, F.
 8455 Lingens, F.
 10602 Linke, H. A. B.
 4248 Linke, L.
 1296 Linkova, O. S.
 2988 Linkova, O. S.
 3745 Linne, L. L.
 4714 Linton, A. H.
 7299 Linton, A. H. (Contd)
 10445 Linton, G. R.
 10097 Linton, J. D.
 6741 Linton, M.
 1444 Liou, Y. F.
 2271 Liou, Y. F.
 4150 Lipa, J. J.
 6642 Lipavskaya, H.
 7659 Lipkin, V. M.
 8311 Liplec, O. M.
 9159 Lipmann, F.
 6182 Lippincott, J. A.
 6141 Lipscomb, W. N.
 417 Lipshic, V. V.
 4821 Liptak, A.
 118 Liras, P.
 9129 Liras, P.
 751 Lirovar, S. A.
 308 Lisa, V.
 7927 Lisa, V.
 9848 Lisa, V.
 2983 Lisenkov, A. N.
 1075 Lisenkov, V. I.
 8791 Liska, M.
 9778 Liska, M.
 9039 Lisochnik, B. G.
 10632 Lisok, T. P.
 10633 Lisok, T. P.
 2399 Liss, A.
 4215 Liston, J.
 9570 Litopoulou-Tzanetkai, E.
 9271 Littsky, W.
 6786 Littell, A. M.
 2893 Littell, R. C.
 6912 Little, C.
 1974 Little, G.
 1456 Little, H.
 10601 Little, W. A.
 7134 Littlefield, L. J.
 9294 Litvinenko, L. A.
 5581 Litvinov, A. N.
 8929 Litvinov, P. S.
 6732 Litvinov, L. I.
 9126 Liu, C. M.
 10352 Liu, C. M.
 8375 Liu, C. C.
 7885 Liu, C. L.
 9192 Liu, D.
 9193 Liu, D.
 9832 Liu, H. Y.
 10352 Liu, M.
 8270 Liu, P.
 7100 Liu, P. S. W.
 3957 Liu, P. Y. K.
 8370 Liu, W. H.
 5820 Livansky, K.
 7302 Livingston, R.
 8720 Livingstone, C. H.
 2340 Livingstone, D. J.
 3499 Ljubesci, N.
 7604 Jungdahl, L. G.
 9447 Junggren, H.
 3210 Ljungholm, K.
 10523 Ljungholm, K.
 9826 Llacer, G.
 300 Llager, G.
 5517 Llanos, C.
 229 Llewellyn, G. C.
 979 Llewellyn, G. C.
 4263 Llewellyn, G. C.
 7812 Llewellyn, G. C.
 9710 Llewellyn, G. C.
 6794 Lloyd, D.
 4935 Lloyd, G. R.
 6112 Lo Bruno, A.
 6115 Lo Bruno, A.
 9856 Lo, J. Y.
 1505 Lo, S.
 4039 Loach, P. A.
 5212 Loane, P.
 8357 Lobanock, A. G.
 2428 Lobanok, A. G.
 2429 Lobanok, A. G.
 2430 Lobanok, A. G.
 2954 Lobanok, A. G.
 9429 Lobanok, A. G.
 1621 Lobarzewski, J.
 6909 Lobarzewski, J.
 19 Lobonok, A. G.
 5684 Lobuseva, A. N.
 8180 Loc, C. T.
 1157 Locci, J. R.
 1157 Locci, R.
 7826 Locci, R.
 7925 Locke, T.
 5130 Lockett, H. J.
 259 Lockhart, B. E. L.
 5306 Lockhart, B. E. L.
 8713 Lockhart, B. E. L.
 4373 Lockhart, C. L.
 8830 Lockhart, C. L.
 6340 Lockwood, C.
 363 Lockwood, J. L.
 8017 Lockwood, J. L.
 8881 Lockwood, J. L.
 10058 Lockyer, D. R.
 3053 Locock, R. A.
 1994 Loebenstein, G.
 2403 Loeffler, W.
 5403 Loegering, W. G.
 680 Loehr, R. C.
 5406 Loesch, P. J.
 5153 Loesche, W. J.
 1974 Logan, C.
 7844 Loggen, H. G.
 32 Loginov, L. G.
 42 Loginov, L. G.
 2496 Loginov, L. G.
 8353 Loginov, L. G.
 5510 Loginov, L. V.
 4932 Lohr, J. A.
 8409 Lohse, R.
 126 Loiseau-Marolleau, M. L.
 4187 Loiseau-Marolleau, M. L.
 9556 Loit, A.
 10098 Lojko, Z. I.
 3366 Lokhmacheva, R. A.
 8110 Lokshin, G. B.
 6692 Loll, U.
 2246 Lomakina, N. N.
 9056 Lomakina, N. N.
 9057 Lomakina, N. N.
 9114 Lomakina, N. N.
 9118 Lomakina, N. N.
 6988 Lombai, G.
 1783 Lombard, S. H.
 7351 London, S. A.
 1637 Long, G. H.
 8180 Long, M.
 8617 Long, M.
 8618 Long, M.
 9640 Long, T. A.
 423 Longden, A. R.
 2513 Lonngren, J.
 9447 Lonngren, J.
 7291 Lonsane, B. K.
 5514 Lonsane, B. K.
 9921 Lonsdale, D.
 2282 Lonskaya, N. I.
 9024 Loos, B. J.
 5169 Loos, M. A.
 4799 Loosli, H. R.
 10144 Loper, J. C.
 6556 Lopez, C. E.
 2168 Lopez, R.
 8864 Lopez-Real, J. M.
 10024 Lopez-Real, J. M.
 4121 Lopez-Romero, E.
 5851 Lopreto, C. R.
 2140 Lopushanskii, A. I.

Author index

- 5773 Loquerie, R.
 5382 Lorbeer, J. W.
 6278 Lorbeer, J. W.
 6279 Lorbeer, J. W.
 6360 Lorbeer, J. W.
 7157 Lorbeer, J. W.
 302 Lorenz, D. H.
 1012 Lorenzini, G.
 5091 Loria, J. K.
 6915 Loria, J. K.
 8388 Loria, J. K.
 6583 Lorian, V.
 9545 Lorient, D.
 331 Lorra, C.
 9954 Loschke, D. C.
 359 Lotoder, R.
 4129 Lotong, N.
 172 Lott, G.
 173 Lott, G.
 2260 Lotz, B.
 6137 Lotzsch, R.
 6138 Lotzsch, R.
 5630 Lou Wang, W. L.
 9276 Loudis, M. C.
 1868 Louie, R.
 5322 Louie, R.
 1955 Louis, C.
 3961 Louria, D. B.
 3876 Loutit, M.
 6415 Loutit, M. W.
 3633 Louvet, J.
 6419 Louvet, J.
 5169 Louw, H. A.
 10050 Louzis, C.
 7818 Loveland, P. M.
 10588 Lovell, D. J.
 5456 Lovett, W. R.
 308 Lovisololo, O.
 7927 Lovisololo, O.
 9848 Lovisololo, O.
 3379 Lovland, J.
 549 Low, I. E.
 5770 Lowbury, E. J. L.
 7302 Lowbury, E. J. L.
 8945 Lowbury, E. J. L.
 10278 Lowe, G.
 7163 Lowe, R.
 9458 Lown, J. W.
 9565 Lowrie, R. J.
 1457 Loynachan, T. E.
 484 Lozinov, A. B.
 5591 Lozjuka, L. V.
 8994 Lozjuka, L. V.
 6303 Lutz, B. C.
 988 Lubben, A.
 9420 Lucas, C. M.
 5319 Lucas, L. T.
 6522 Lucas-Lenard, J.
 4018 Lucchelli, P. E.
 4986 Lucchetti, E.
 466 Lucic, J. L.
 3426 Luck, E.
 7846 Lucken, R. N.
 3862 Luczak, J.
 5516 Luczak, J.
 3245 Ludden, P. W.
 2953 Ludewig, R.
 8026 Ludwig, R. A.
 5641 Luecke, D.
 6078 Luedecker, L. O.
 9701 Luedecker, L. O.
 2023 Luepschen, N. S.
 1977 Lueschen, W. E.
 6581 Luginbuhl, G. H.
 5064 Luginina, T. N.
 6891 Luginina, T. N.
 7625 Luginina, T. N.
 1933 Luhn, C. F.
 358 Luig, N. H.
 7894 Luig, N. H.
 9975 Luisi, N.
 4265 Luk, K. C.
 7076 Luk, K. C.
 1436 Lukacs, G.
 10376 Lukacs, G.
 3878 Lukash, V. O.
 5551 Lukasiak, J.
 4195 Lukasova, J.
 5662 Lukaszow, P.
 3406 Lukawska, Z.
 1165 Luke, P.
 3635 Luke, P.
 374 Lukens, R. J.
 9972 Lukens, R. J.
 8347 Lukin, A. A.
 60 Luknitskii, F. I.
 1150 Lukomski, S.
 2436 Lukyanova, M. A.
 4844 Lukyanova, E. G.
 2069 Lumsden, R. D.
 4303 Lumsden, R. D.
 5480 Lumsden, R. D.
 6659 Luna, M.
 1603 Lunceford, C. D.
 2549 Lund, D. B.
 9658 Lund, D. B.
 9659 Lund, D. B.
 9660 Lund, D. B.
 5835 Lund, M. E.
 9920 Lund, V. M.
 5159 Lundell, R.
 5160 Lundell, R.
 5646 Lundin, A.
 121 Lundin, R. E.
 273 Lundsgaard, T.
 1065 Lundsgaard, T.
 4336 Lundsgaard, T.
 6645 Lunel, J.
 1300 Luni, P. A.
 277 Luning, H. U.
 9105 Lupashevskaya, D. P.
 8071 Lupi, A.
 7788 Lupo, M. C. C.
 7743 Luquet, F. M.
 5668 Lur, L. M.
 7596 Lusta, K. A.
 8109 Luther, P. D.
 4603 Lutinskaja, G. A.
 1577 Lutticjen, R.
 589 Luttrell, G. H.
 6479 Luttropp, L. K.
 3749 Lutyński, R.
 8139 Lutz, A.
 2349 Lutz, F.
 9742 Luzzi, I.
 5725 Lvova, N. A.
 2434 Lyakh, V. V.
 6430 Lyda, S. D.
 8188 Lynch, D. L.
 9981 Lynch, F. J.
 9610 Lynch, G. P.
 1163 Lynch, J. M.
 7251 Lynch, J. M.
 2409 Lyne, P. M.
 4104 Lysten, A.
 7019 Lynt, R. K.
 9683 Lynt, R. K.
 4602 Lyon, A. J. E.
 8602 Lyon, F.
 1961 Lyon, G. D.
 4445 Lyon, G. D.
 8771 Lyrene, P. M.
 6917 Lysenko, O.
 5119 Lysenko, S. V.
 5351 Lyskanowska, K.
 1901 Lyskanowska, M. K.
 6866 Lysogorskaya, E. N.
 3291 Lyublinskaya, L. A.
 9435 Lyublinskaya, L. A.
 58 Maakins, G. D.
 5005 Maaloe, O.
 9746 Maan, G. C.
 2068 Maass, J. L.
 8082 Maass, W. S. G.
 9761 Maats, D. Z.
 7442 Mabelis, R. P.
 435 Mac Nish, G. C.
 8456 Mac Rae, I. C.
 9946 Macaron, J.
 3855 Macaulay, D. C.
 203 MacAuliffe, T.
 8490 MacBean, R. D.
 580 Macchia, B.
 580 Macchia, B.
 9011 MacClelland, D. C.
 3285 Macdonald, I. A.
 5145 Macdonald, J. C.
 1346 Macdonald, K. D.
 3023 Macdonald, K. D.
 1541 Macdonald, N.
 10036 Macdonald, R. M.
 1923 Mace, M. E.
 1218 Macedo, M. A. E.
 9842 Macek, J.
 863 MacElroy, R. D.
 9619 Machalek, E.
 5509 Macham, L.
 2224 Machara, K.
 9168 Machek, M. E.
 10618 Machek, F.
 8513 Machikhin, S. A.
 1253 Machlanski, T.
 6520 Machlanski, T.
 1147 Machulkova, A.
 3394 Maciaszek, A.
 3406 Maciaszek, A.
 2388 Macierewicz, M.
 5570 Mackawa, K.
 6791 Mackay, S. J.
 7518 Mackay-Ferguson, E.
 5802 Mackel, D. C.
 1439 MacKellar, F. A.
 5452 MacKenzie, M.
 948 MacKenzie, M. A.
 3812 Mackey, J. K. Jr.
 1449 Mackiewicz, I.
 3899 Mackiewicz, K.
 6341 Mackiewicz, S.
 2033 MacKintosh, B. L.
 6683 Maclean, G. T.
 97 MacLeod, A. M.
 10524 MacLowry, J. D.
 454 MacMillan, K. A.
 3951 Macnab, R. M.
 6126 MacNeil, J. H.
 5397 MacNeill, B. H.
 3396 Macpherson, L. W.
 4421 Macri, F.
 6159 Macris, B. J.
 5019 Macris, B. J.
 3366 Macura, J.
 8701 Madaan, R. L.
 10641 Madalinski, W.
 559 Madanagopolan, N.
 1507 Madden, J. J.
 9381 Madden, J. J.
 4117 Maddox, I. S.
 9983 Maddox, M. L.
 1595 Madeira-Lopes, A.
 5555 Madersbacher, H.
 2080 Madhava Reddy, V.
 5095 Madia, A. M.
 6502 Madkour, M. A.
 2417 Madler, J. J.
 2339 Madrie, P.
 3240 Madron, F.
 5905 Madron, F.
 8654 Madson, M. E.
 5192 Madyastha, K. M.

Author index

3903	Maeda, H.	7823	Maity, B. R.	3468	Mall, T. P.
6641	Maeda, K.	4790	Majer, J.	3469	Mall, T. P.
9462	Maeda, K.	8167	Majer, J.	6193	Mallaiiah, K. V.
1666	Maeda, M.	8422	Majko, I. I.	560	Mallams, A. K.
10535	Maeda, Y.	9458	Majumdar, K. C.	612	Mallams, A. K.
10536	Maeda, Y.	1001	Majumdar, M.	613	Mallams, A. K.
5358	Maedo, I.	1011	Majumdar, M.	614	Mallams, A. K.
1424	Maehr, H.	3466	Majumdar, M.	615	Mallams, A. K.
1425	Maehr, H.	4375	Majumdar, M.	616	Mallams, A. K.
6598	Maehr, H.	3783	Majumdar, S. K.	10336	Mallams, A. K.
10352	Maehr, H.	6523	Majumdar, S. K.	2238	Mallett, M. F.
2970	Maestroni, G.	7348	Majumdar, S. K.	5035	Mallinson, H.
5566	Maestroni, G.	8323	Majumdar, S. K.	5802	Mallison, G. F.
6618	Maevskaya, G. S.	3268	Majumdar, D. K.	3411	Malloch, D.
7438	Maizawa, I.	5552	Makabe, M. C.	10558	Malnick, H.
5054	Mafuire, R. J.	1378	Makarevich, V. G.	3878	Maloletkov, I. S.
3343	Magar, J. A.	1379	Makarevich, V. G.	457	Malone, J. P.
2395	Magalhaes, M. M. dos A.	3051	Makarevich, V. G.	7999	Malone, J. P.
10313	Magallia, A. W.	3052	Makarevich, V. G.	3445	Maloy, S. E.
10007	Magasi, L. P.	4781	Makarevich, V. G.	5597	Malyuga, O. A.
4897	Magda, K.	4782	Makarevich, V. G.	10637	Mamonenko, L. L.
8074	Magge, P. T.	7417	Makarevich, V. G.	7340	Mamontova, T. V.
8531	Maggio, P.	10328	Makarevich, V. G.	6347	Mampouya, P. C.
4256	Maggon, K. K.	7646	Makarjunaite, J. P.	4542	Mamukashvili, T. I.
4258	Maggon, K. K.	2237	Makarova, M. O.	3507	Mamula, D.
7811	Maggon, K. K.	5497	Makarova, N. M.	5307	Mamula, D.
2323	Magliaro, J.	875	Makarova, R. A.	5363	Mamula, D.
2324	Magliaro, J.	2524	Makarova, R. A.	4689	Man, W. K.
9836	Magnano di san Lio, G.	6602	Makarova, R. A.	2224	Manabe, K.
3723	Magne, F. C.	4744	Makarovskaya, L. N.	238	Manabe, M.
6612	Magnusson, J. A.	101	Makeev, D. M.	5569	Manava, A. K.
1596	Magnusson, K. E.	5804	Makela, P.	9843	Mancini, G.
1597	Magnusson, K. E.	10495	Makela, P.	322	Mandahar, C. L.
5975	Magretova, N. N.	3659	Makemson, J.	1026	Mandahar, C. L.
1020	Magro, P.	10597	Makens, M. A.	3477	Mandahar, C. L.
8837	Maguire, J. D.	8095	Makhloue, A. A.	998	Mandal, M.
9395	Maguire, R. J.	9542	Maki, K.	999	Mandal, M.
7935	Magyarosy, A. C.	5909	Makinen, V.	3048	Mandal, T. K.
8730	Magyarosy, A. C.	9899	Makkouk, K. M.	4837	Mandark, C. R.
810	Mahajan, J. R.	9946	Makkouk, K. M.	8891	Mandell, M.
9953	Mahama, A.	3229	Makover, S.	6547	Mandell, G. L.
9938	Mahama, A.	4810	Maksimova, T. S.	62	Mandels, M.
4128	Maheshwari, V.	9056	Maksimova, T. S.	1644	Mandels, M.
6204	Mahiar, F. F.	4897	Maksimovic, A.	5926	Mandels, M.
1507	Mahl, M. C.	2164	Makukha, N. Ya.	7616	Mandels, M.
2730	Mahmood, K.	9114	Makukho, L. V.	8920	Mandil, Y.
2740	Mahmood, K.	2941	Makulu, M. U.	7519	Mandil, W.
4014	Mahmood, K.	5318	Mal'itseva, A. I.	6140	Mandrou, B.
7160	Mahmood, K.	4579	Mal'itseva, N. N.	7064	Mandrou, B.
1594	Mahmood, M.	4556	Malakhov, V. V.	2634	Maness, D. D.
2689	Mahmood, M.	7485	Malakhova, T. S.	5919	Mangallam, S.
3475	Mahmood, M.	2164	Malakhovsky, V. K.	1543	Mangels, J. I.
284	Mahmoud, Z.	6194	Malakondaiah, N.	10550	Mangels, J. I.
955	Mahmoud, S. A. Z.	5132	Malama, A. A.	3626	Mangenot, F.
961	Mahmoud, S. A. Z.	1540	Malashenko, Ju. R.	9504	Manger, H. F.
962	Mahmoud, S. A. Z.	5518	Malashenko, Ju. R.	10556	Mangum, M. E.
1430	Mahmoud, S. A. Z.	8929	Malashenko, Ju. R.	5658	Manhas, M. S.
1431	Mahmoud, S. A. Z.	2915	Malashenko, Y. P.	3527	Manickam, A.
1432	Mahmoud, S. A. Z.	9966	Malathrakias, N. E.	6604	Manina, G. V.
1433	Mahmoud, S. A. Z.	8394	Malcovati, M.	415	Manion, P. D.
1241	Mahnel, H.	8169	Maldonado, B.	5455	Manion, P. D.
3504	Maholay, M. N.	7701	Maldonado, O.	3209	Mankikar, S. D.
5683	Mahon, W. A.	3862	Maleszewski, J.	9178	Mankin, J. B.
1323	Mahoney, D. F.	3893	Maleszewski, J.	6044	Mann, E. J.
3285	Mahony, D. E.	5516	Maleszewski, J.	6069	Mann, E. J.
8328	Mahony, D. E.	2559	Maleszewski, J.	7738	Mann, E. J.
4949	Mahood, R. J.	3394	Maleszewski, J.	7779	Mann, E. J.
7564	Mahood, R. J.	3406	Maleszewski, J.	8489	Mann, E. J.
10084	Mahr, W.	4132	Malhotra, H. C.	2601	Mann, E. M.
1918	Mai, W. F.	7679	Malhotra, H. C.	228	Mann, G. E.
4904	Maibach, H. I.	3490	Malhotra, R. K.	7063	Mann, R.
1172	Maiers, R. J.	5326	Malhotra, V. V.	8558	Mann, R.
6760	Maiers, S.	8710	Malik, V. R.	5223	Mannar, M. C.
9467	Maiers, W.	6390	Malii, L. P.	2464	Manners, D. J.
4800	Maiese, W.	1002	Malik, K. A.	6168	Manners, J. G.
3546	Main, C. E.	7538	Malik, K. A.	1012	Mannerucci, G. F.
5697	Mainville, C.	1691	Maliszewski, M.	9666	Mannheim, C. H.
8801	Maiti, S.	3443	Malivanova, O. M.	1738	Manning, D. J.
7873	Maitra, A.	10128	Malke, H.	9965	Manning, W. J.
4119	Maitra, S. K.	10224	Malkov, M. A.	3551	Manninger, I.

Author index

- 2866 Manoharachary,C.
 8761 Manoharachary,C.
 1240 Manolova,N.
 1572 Manos,J.P.
 2930 Manowska,W.
 8968 Manowska,W.
 373 Mansfield,J.W.
 4846 Mansfield,M.E.
 7016 Mantel,T.
 7525 Mantel,T.
 339 Mantell,S.H.
 5242 Manterola,H.B.
 288 Mantler,P.G.
 8267 Mantovani,V.
 2622 Manwiller,A.
 7820 Manwiller,A.
 420 Manwiller,F.G.
 4346 Manzo,S.K.
 2408 Mara,D.D.
 1914 Marais,A.
 10437 Marais,G.V.R.
 8850 Marais,L.J.
 6372 Maraiter,H.
 4780 Maramorosch,K.
 5295 Maramorosch,K.
 5309 Maramorosch,K.
 9186 Maran,E.
 1925 Marani,A.
 315 Marathe,T.S.
 6243 Marathe,T.S.
 6244 Marathe,T.S.
 5617 Maravanova,L.
 9409 Marbach,A.
 9409 Marbach,I.
 10390 Marchelli,R.
 7557 Marchenkova,T.V.
 7672 Marchessault,R.H.
 4342 Marchetti,M.A.
 4343 Marchetti,M.A.
 1258 Marchlewska,B.
 1259 Marchlewska,B.
 5675 Marchlewska,Z.
 9749 Marchoux,G.
 9845 Marchoux,G.
 1020 Marciano,P.
 10215 Marcinko,K.
 8997 Marciszewska,M.
 255 Marco,S.
 1005 Marco,S.
 3509 Marco,S.
 5393 Marco,S.
 245 Marcy,G.
 5613 Marcy,G.
 3088 Mard,M.
 10121 Marder,H.P.
 2233 Mardh,P.-A.
 3210 Mardh,P.-A.
 5699 Mardh,P.-A.
 10523 Mardh,P.-A.
 300 Marenaud,C.
 5177 Marescalchi,C.
 8447 Marescalchi,C.
 8470 Maresova,P.
 151 Maret,R.
 162 Maret,R.
 2120 Margineau,C.
 9076 Margolin,A.A.
 4100 Margolin,A.L.
 4101 Margolin,A.L.
 7644 Margolin,A.L.
 1767 Mariani,P.
 9789 Marica,A.
 6151 Marica,D.
 7959 Marigo,G.
 8916 Marimuthu,T.
 7551 Marinelli,P.
 4390 Marinesku,W.G.
 3762 Marini,F.
 8071 Marini-Bettolo,G.B.
 4932 Marion,D.
 8908 Mariotti,F.
 4543 Marks,W.R.
 9598 Markakis,P.
 7141 Markham,P.G.
 9782 Markham,P.G.
 4720 Markley,E.
 7880 Markova,J.
 2016 Marks,A.F.
 6397 Marks,G.C.
 6398 Marks,G.C.
 8007 Marks,G.C.
 8008 Marks,G.C.
 1769 Marks,H.L.
 1321 Marks,M.I.
 4657 Marks,M.I.
 6551 Marks,M.I.
 5380 Marlatt,R.R.
 5006 Marler,E.E.J.
 8203 Marley,J.
 8671 Maroquin,C.
 1398 Marquez,J.A.
 6598 Marquez,J.A.
 10262 Marquez,J.A.
 7576 Marquis,R.E.
 2187 Marr,J.J.
 9041 Marr,J.J.
 10603 Marr,J.J.
 10612 Marraro,R.V.
 2085 Marriell,I.E.
 9765 Marriott,N.G.
 6248 Marrou,J.
 1798 Marsh,G.L.
 2617 Marsh,G.L.
 5989 Marshall,A.G.
 6334 Marshall,H.G.
 8770 Marshall,H.G.
 6671 Marshall,J.H.
 2452 Marshall,J.J.
 1163 Marshall,J.M.
 2514 Marshall,K.
 6441 Marshall,K.C.
 10061 Marshall,K.C.
 10062 Marshall,K.C.
 3873 Marshall,K.R.
 7477 Marshall,K.R.
 5219 Marshall,R.J.
 5208 Marshall,R.T.
 6998 Marshall,R.T.
 7767 Marshall,R.T.
 8474 Marshall,R.T.
 8477 Marshall,R.T.
 8549 Marshall,R.T.
 1383 Marshall,V.P.
 6634 Marshall,V.P.
 6864 Marshall,V.P.
 5750 Marso,E.
 4983 Martegani,E.
 490 Martel,A.
 6270 Martelli,G.P.
 8696 Martelli,G.P.
 1876 Martens,J.W.
 4339 Martens,J.W.
 7458 Martens,L.A.
 1801 Marth,E.H.
 2549 Marth,E.H.
 3438 Marth,E.H.
 4268 Marth,E.H.
 5232 Marth,E.H.
 6145 Marth,E.H.
 8467 Marth,E.H.
 8573 Marth,E.H.
 9538 Marth,E.H.
 9546 Marth,E.H.
 9651 Marth,E.H.
 9720 Marth,E.H.
 6542 Marti,R.
 3074 Martin Luengo,F.
 6027 Martin,B.A.
 6269 Martin,C.
 7134 Martin,C.D.
 8298 Martin,C.F.
 3351 Martin,C.K.A.
 8401 Martin,C.K.A.
 8654 Martin,F.B.
 4069 Martin,H.H.
 10477 Martin,J.B.
 2255 Martin,J.F.
 4748 Martin,J.F.
 9129 Martin,J.F.
 680 Martin,J.H.
 2859 Martin,J.P.
 4601 Martin,J.P.
 1421 Martin,J.R.
 5689 Martin,J.R.
 8167 Martin,J.R.
 10572 Martin,J.R.
 8729 Martin,L.W.
 8708 Martin,M.M.
 634 Martin,P.K.
 3947 Martin,S.E.
 8287 Martin,S.E.
 9186 Martin,S.E.
 5337 Martin,T.J.
 5750 Martin,W.J.
 8735 Martin,W.J.
 10541 Martin,W.J.
 8520 Martin,Y.P.
 783 Martinelli,S.D.
 3025 Martinetto,P.
 8640 Martinez,C.A.
 9773 Martinez,M.
 9933 Martinez,M.
 5055 Martinovich,L.I.
 9043 Martins,K.
 99 Martinson,E.
 5167 Martinson,E.
 1143 Martinsson,O.
 5680 Marton,L.
 7487 Martyniuk,S.
 9353 Marumo,H.
 6625 Marumo,S.
 5718 Marumoto,R.
 2242 Marumoto,Y.
 5966 Maruo,B.
 5097 Maruo,S.
 7600 Maruyama,H.
 4361 Marwitz,R.
 4387 Marwitz,R.
 3601 Marx,D.H.
 8893 Marx,J.L.
 7586 Masago,H.
 3180 Masai,H.
 9684 Masaki,H.
 7044 Masaki,S.
 9645 Masaki,S.
 9823 Masannat,K.
 3012 Mascellani,G.
 8496 Masek,J.
 8497 Masek,J.
 8561 Maselli,J.A.
 6772 Mashilova,G.M.
 3758 Maskell,J.
 4069 Maskos,C.
 3998 Mason,E.O.Jr.
 8174 Mason,K.T.
 10347 Mason,K.T.
 5444 Mason,P.A.
 2913 Mason,T.J.
 7813 Masri,M.S.
 9875 Masri,S.
 3262 Massarini,E.
 2241 Massing,R.P.
 6900 Masson,J.-M.
 7634 Masson,J.-M.
 10497 Mast,M.G.
 4606 Masterson,N.
 9742 Mastrantonio,P.
 5096 Mastromei,G.
 3031 Mastroviti,S.
 3288 Masuda,G.

Author index

6553 Masuda,G. (Contd)	9134 Matsumoto,K. (Contd)	5331 Mayee,C.D. (Contd)
7376 Masuda,G.	9354 Matsumoto,K.	8611 Mayee,C.D.
103 Masuda,H.	145 Matsumoto,M.	7633 Mayer,A.M.
10176 Masuda,K.	4143 Matsumoto,M.	9409 Mayer,A.M.
2243 Masuma,R.	10627 Matsumoto,M.	3318 Mayer,F.
9466 Masuma,R.	5593 Matsumoto,S.	5915 Mayer,F.
6479 Mata,L.J.	7 Matsumoto,T.	4120 Mayer,H.
6979 Matsum,G.W.J.	1686 Matsumoto,T.	6678 Mayer,L.W.
4215 Matches,J.	1754 Matsumoto,T.	3173 Mayer,R.
1558 Matches,J.R.	112 Matsumura,F.	6546 Mayers,B.R.
9227 Mate Secor,M.P.	4088 Matsumura,G.	4345 Mayers,P.E.
9513 Matebassi,R.	7576 Matsumura,P.	3478 Mayfield,A.H.
7428 Mateju,J.	70 Matsunaga,K.	3158 Mayfield,C.I.
3156 Matek,M.Z.	71 Matsunaga,K.	5468 Mayfield,C.I.
5900 Mateles,R.I.	1696 Matsunaga,T.	2187 Mayhall,C.G.
5923 Mateles,R.I.	9370 Matsuno,R.	1862 Mayhew,D.E.
8860 Matheron,M.E.	9475 Matsuno,R.	4321 Mayhew,D.E.
10419 Mathes,L.E.	3987 Matsuoka,E.	7545 Mayhew,J.W.
10630 Mathes,L.E.	7317 Matsuoka,A.	8115 Mayo,J.B.
6249 Mathew,J.	1219 Matsuoka,H.	8483 Mayou,J.L.
6758 Mathew,P.C.	8837 Matsuoka,K.	8484 Mayou,J.L.
4394 Mathews,F.D.	9152 Matsushima,H.	5600 Mayr,H.P.
3994 Mathews,H.L.	8433 Matsuura,H.	1067 Mazaur,D.
10434 Mathewson,G.K.	9124 Matsuura,K.	2747 Mazaur,D.
771 Mathijssen,H.M.	1387 Matsuura,S.	6256 Mazin,V.V.
2688 Mathre,D.E.	2251 Matsuura,S.	5851 Mazzar,L.A.
2714 Mathre,D.E.	2270 Matsuura,S.	7073 Mazzola,E.P.
4308 Mathre,D.E.	5704 Matsuura,S.	7587 Mazzone,H.M.
4450 Mathre,D.E.	5149 Matsuzaki,M.	3301 Mazzucchi,U.
7200 Mathre,D.E.	7942 Matta,A.	3594 Mazzucchi,U.
8769 Mathur,B.N.	8789 Matta,A.	5550 McAllister,T.A.
3317 Mathur,D.K.	9843 Matta,A.	6658 McAllister,T.A.
1911 Mathur,R.L.	4223 Mattada,R.R.	9032 McAllister,T.A.
1911 Mathur,R.L.	2473 Mattee,C.C.	4790 McAlpine,J.B.
4490 Mathur,R.L.	8318 Matteuzzi,D.	9151 McAlpine,J.B.
5496 Mathur,R.S.	2980 Matthenius,J.C.Jr.	9152 McAlpine,J.B.
6223 Mathur,S.B.	7890 Matthews,B.D.	7303 McArdle,F.J.
454 Mathur,S.P.	2049 Matthews,F.R.	726 McBea,M.L.
10077 Mathur,S.P.	5232 Matthews,M.E.	4529 McBride,R.P.
3190 Patiashova,R.N.	4470 Matthews,P.	7620 McCabe,M.D.
5547 Ptiyasha,I.N.	4715 Matthews,T.R.	663 McCahon,D.
6775 Matney,S.T.	5627 Matthews,T.R.	6785 McCall,W.A.
3575 Matochar,P.Jr.	9318 Mattiasson,B.	1525 McCalla,T.M.
2797 Matolcsy,G.	8452 Mattick,L.R.	6809 McCance,M.E.
7458 Matorina,N.A.	5095 Mattoo,A.K.	667 McCann,T.
2904 Matrosov,A.G.	2954 Matulaytite,Y.Y.	1404 McCardell,B.A.
4720 Matsen,J.M.	311 Matuo,T.	8740 McCarter,S.M.
10539 Matsen,J.M.	6844 Matusiak,P.M.	9267 McCarthy,D.H.
3848 Matson,J.V.	7568 Matuso,Y.	3962 McCarthy,L.R.
3445 Matson,R.R.	3336 Matvienko,N.I.	8115 McCarthy,L.R.
8895 Matsui,E.	7715 Matyas,Z.	10556 McCarthy,L.R.
3682 Matsubara,H.	3294 Matz,L.L.	10611 McCarthy,L.R.
8326 Matsubara,I.	4439 Maude,R.B.	1297 McCarthy,M.
9117 Matsubara,I.	2248 Mauger,A.B.	5936 McCartney,A.C.
889 Matsubara,S.	8174 Mauger,A.B.	6864 McCarville,M.
5654 Matsubara,S.	5824 Maugh,T.H.	7791 McCaskey,T.A.
837 Matsuda,K.	4833 Mauler,R.	10489 McClary,C.L.
1754 Matsuda,T.	9664 Maunder,D.T.	7307 McClatchy,J.K.
4063 Matsuda,T.	10568 Mavrothalassitis,P.	8502 McClory,M.J.
10348 Matsuda,T.	6077 Maxcy,R.B.	995 McClure,F.
2477 Matsuda,Y.	9662 Maxcy,R.B.	3451 McClure,F.
2478 Matsuda,Y.	3994 Maxim,P.E.	2589 McClymont,D.M.
14 Matsuhashi,Y.	2918 Maximov,V.N.	1587 McCormack,W.M.
6483 Matsuhashi,Y.	9278 Maximov,V.N.	1548 McCormick,R.D.
9095 Matsuhashi,Y.	2981 Maximova,L.M.	4194 McCormick,R.D.
10357 Matsuhashi,Y.	5767 Maximova,R.A.	4831 McCown,J.M.
9413 Matsui,K.	10580 May,P.S.	9482 McCoy,C.J.
915 Matsui,Y.	8395 May,S.W.	403 McCoy,R.E.
916 Matsui,Y.	8674 May,Y.Y.	1922 McCoy,R.E.
3984 Matsui,Y.	1387 Mayama,M.	3518 McCoy,R.E.
10095 Matsui,Y.	2251 Mayama,M.	8675 McCoy,R.E.
7600 Matsuishio,T.	2261 Mayama,M.	7038 McCracken,A.
10 Matsumoto,A.	2270 Mayama,M.	10021 McCracken,F.I.
192 Matsumoto,H.	5704 Mayama,M.	7230 McCready,C.C.
6018 Matsumoto,I.	5705 Mayama,M.	630 McDaniel,L.E.
1387 Matsumoto,K.	9134 Mayama,M.	4746 McDaniel,L.E.
2251 Matsumoto,K.	2704 Mayee,C.D.	9041 McDaniel,R.E.
2261 Matsumoto,K.	2710 Mayee,C.D.	1941 McDoyle,R.E.
2270 Matsumoto,K.	2732 Mayee,C.D.	6320 McDonald,D.
8136 Matsumoto,K.	4462 Mayee,C.D.	3326 McDonald,K.M.

Author index

- 7162 McDonald, M. S.
 207 McDonald, P.
 2601 McDonald, P.
 9632 McDonald, P.
 9634 McDonald, P.
 4921 McDowell, C.
 9014 McDowell, J. W.
 4673 McDuff, C. R.
 5608 McEntegart, M. G.
 9425 McEntegart, M. G.
 8240 McEwen, D. A.
 49 McFadden, B. A.
 48 McFadden, B. A.
 3319 McFadden, B. A.
 730 McFarlane, D. F.
 6720 McFeters, G. A.
 10474 McFeters, G. A.
 7301 McGarr, C.
 2836 McGauley, B.
 2837 McGauley, B.
 4417 McGechan, J. K.
 8722 McGee, D. C.
 8723 McGee, D. C.
 7740 McGillivray, W. A.
 5697 McGilveray, I. J.
 10584 McGinley, K. J.
 202 McGinnis, J.
 203 McGinnis, J.
 347 McGlasson, W. B.
 4519 McGlohon, N. E.
 10336 McGlotten, J.
 4966 McGowan, J. E. Jr.
 10637 Mchedlishvili, B. V.
 434 McIlveen, W. D.
 457 McIlwaine, R. S.
 5129 McInnes, A. G.
 8773 McIntosh, R. A.
 4780 McIntosh, A. H.
 1809 McIntyre, J. L.
 5982 McIntyre, J. L.
 8828 McIntyre, J. L.
 9972 McIntyre, J. L.
 10566 McIntyre, P. A.
 2325 McIver, J. D.
 10473 McIver, J. D.
 5221 McKay, L. L.
 9564 McKay, L. L.
 6203 McKeen, W. E.
 6208 McKeen, W. E.
 2101 McKellar, R. C.
 10163 McKellar, R. C.
 2101 McKenzie, C. N.
 8606 McKenzie, D. L.
 8723 McKenzie, D. L.
 3458 McKenzie, J. S.
 1876 McKenzie, R. I. H.
 4339 McKenzie, R. I. H.
 4864 McKeon, J. J.
 4478 McKnew, C. C.
 6985 McLaughlin, M. C.
 9763 McLaughlin, M. R.
 9771 McLaughlin, M. R.
 3677 McLean, A. J.
 1097 McLean, D. L.
 8600 McLean, D. L.
 725 McLeod, J. S.
 10538 McMahon, R. E.
 7970 McMaster, G. M.
 8506 McMeekin, T. A.
 7456 McMichael, D. L.
 3034 McMillan, I.
 6143 McMillan, J. A.
 6677 McMullen, E. D.
 5841 McNaught, D. J.
 4348 McNeal, F. H.
 4723 McNeely, B. J.
 1681 McNeely, W. H.
 9641 McQueen, R. E.
 4740 McSweeney, R. J.
 3489 McVey, D. V.
 6804 McVicar, J. W.
 5049 McWethy, S. J.
 4604 McWhorter, D. B.
 2578 Mead, G. C.
 4239 Mead, G. C.
 2508 Meakins, G. D.
 3325 Meakins, G. D.
 1784 Meara, P. J.
 2231 Mechlin, W.
 10492 Meddick, H. M.
 62 Medeiros, J.
 9829 Medina, A.
 7882 Medina Candanedo, D. M.
 4778 Meding, H.
 2187 Medoff, G.
 9041 Medoff, G.
 5768 Medunitsyn, N. V.
 1827 Medwid, R. D.
 937 Mee, B. J.
 9310 Meek, G. A.
 1108 Meek, V.
 2969 Meelet, M.
 3221 Meers, P. D.
 2219 Meesschaert, B.
 2084 Megarrity, R. G.
 3655 Meggitt, W. F.
 9338 Meguro, H.
 2072 Megusar, F.
 980 Mehan, V. K.
 2997 Meheus, A.
 1519 Mehlhorn, G.
 2290 Mehlhorn, G.
 8283 Mehra, U. R.
 1070 Mehrotra, R. S.
 10247 Mehrotra, R. S.
 8985 Mehta, H.
 3697 Mehta, P.
 1662 Mehta, R. J.
 6903 Mehta, R. J.
 2883 Mehta, S. L.
 8225 Meier, C.
 3285 Meier, E. C.
 6178 Meiners, J. P.
 6179 Meiners, J. P.
 8289 Meinicke, D.
 8093 Meinisch, L.
 5169 Meisel, R.
 7848 Meisel-Mokolajaczky, F.
 5826 Meissel, M. N.
 10487 Meissner, C.
 8662 Meister, C. W.
 6967 Meister, D.
 6943 Meister, W.
 9629 Meixner, B.
 7860 Mekalanos, J. J.
 1128 Melchior, G. H.
 4773 Meldrays, Y. A.
 6584 Melenbeck, M.
 7556 Melkumyants, N. B.
 10509 Mellars, B.
 7304 Melblin, T.
 60 Meller, E. A.
 8027 Meller, W.
 4275 Melling, J.
 5735 Mellows, G.
 7444 Mellows, G.
 7445 Mellows, G.
 7446 Mellows, G.
 887 Melner, K.
 2302 Melnick, J. L.
 3108 Melnick, J. L.
 3818 Melnick, J. L.
 3875 Melnick, J. L.
 3900 Melnick, J. L.
 4005 Melnick, J. L.
 6716 Melnick, J. L.
 8243 Melnick, J. L.
 9224 Melnick, J. L.
 4829 Melnick, E. L.
 8291 Melnik, V. A.
 5601 Melumad, D.
 2757 Menar, A. J.
 2758 Menar, A. J.
 7701 Menchur, J. F.
 5106 Mendoza, D.
 7813 Meneghelli, B. J.
 2899 Menge, J. A.
 8842 Menge, J. A.
 9157 Mengel, R.
 3994 Mengoli, H. F.
 8520 Mengus, B. M.
 282 Menon, M. R.
 1032 Menon, M. R.
 935 Mensah, E. M.
 10182 Mentel, R.
 4481 Menzies, S. A.
 4482 Menzies, S. A.
 6638 Merati, W.
 4296 Mercer, J.
 6192 Mercer, P. C.
 2964 Mercier, C.
 6272 Mercier, S.
 6282 Mercier, S.
 6294 Mercier, S.
 4965 Mercuri, A. J.
 7011 Mercuri, A. J.
 7764 Mercuri, A. J.
 6181 Meredith, G.
 1917 Merezhinskij, J. J.
 4652 Merigan, T. C.
 7065 Merlini, L.
 7826 Merlini, L.
 10120 Mero, E.
 2437 Merrick, J. M.
 4921 Merrill, R.
 2039 Merrill, W.
 3612 Merrill, W.
 5463 Merrill, W.
 2872 Merriman, P. R.
 929 Merritt, A. C. Jr.
 3999 Merritt, K.
 1798 Merson, R. L.
 7592 Mertins, J. W.
 10645 Mertins, J. W.
 1293 Meryman, H. T.
 3069 Meshcheryakov, E. A.
 5160 Meskanen, A.
 1663 Mesrobian, B. K.
 9418 Mesrobian, V. K.
 9638 Messer, H. J. M.
 9538 Messer, J. W.
 7082 Messer, S. L.
 1885 Messiaen, C. M.
 6347 Messiaen, C. M.
 6433 Messiaen, C. M.
 6286 Metlitskij, L. V.
 10212 Metro, F.
 10608 Metz, B.
 4308 Metz, S. G.
 10293 Metzger, K.
 220 Metzger, V.
 1854 Meuhlbaumer, F. J.
 3756 Meunier-Carpentier, F.
 1609 Meurman, O. H.
 1913 Mew, T. W.
 9947 Mew, T. W.
 168 Meyer, A.
 7297 Meyer, B.
 5783 Meyer, E.
 776 Meyer, H.
 6372 Meyer, J. A.
 10183 Meyer, R. B.
 2184 Meyer, R. D.
 10275 Meyer, R. D.
 2900 Meyer, W. C.
 8253 Meyer-Rohn, J.
 5652 Meyers, B. R.
 5751 Meyers, B. R.
 7676 Meyers, C.
 10226 Meyrick, P.

Author index

- 2193 Mezentsev, A. S.
1015 Mian, M. A. W.
10268 Miao, P. V. W.
6667 Michael, M.
4883 Michaels, G. E.
7700 Michaels, G. E.
5299 Michail, S. H.
9762 Michail, S. H.
5606 Michalewska, J.
8630 Michalikova, A.
8797 Michalikova, A.
9808 Michalikova, A.
4325 Michalov, J.
8585 Michela, A.
1229 Michela, G.
5743 Michela, G.
8127 Michela, J.
8973 Michela, M. F.
7306 Michel-Briand, Y.
10123 Michel-Briand, Y.
8053 Micheli, M.
8267 Michelin, V.
4362 Pickle, W. C.
10556 Mickelsen, P. A.
10611 Mickelsen, P. A.
1581 Mickelson, M. N.
863 Middaugh, C. R.
4183 Middelhoven, W. J.
4818 Middelhoven, W. J.
5287 Middlebrook, J. L.
5288 Middlebrook, J. L.
3209 Middleton, P. J.
3653 Midha, S. K.
5263 Midler, O.
7366 Midtvedt, T.
10623 Miegel, J.
6345 Miercer, P. C.
188 Miescier, J. J.
6316 Migliori, A.
8616 Miguucci, J. S.
7473 Mignone, N. A.
9771 Mignucci, J.
10490 Mihalyi, S. F.
5261 Mihalyi, V.
1978 Mihov, A.
1799 Mijatov, L. O.
9819 Mijuskovic, M.
1686 Mikami, T.
2263 Mikami, Y.
2264 Mikami, Y.
10176 Mikami, Y.
6997 Mikawa, K.
526 Mikelens, P.
6622 Mikes, O.
8873 Mikhailov, A. A.
5826 Mikhailov, G. I.
6668 Mikhailov, V. V.
619 Mikhailov, I. K.
6206 Mikhailov, L. A.
10326 Mikhailov, N. G.
4829 Mikhaleva, L. I.
9479 Mikhayeva, L. D.
2197 Miki, K.
5966 Miki, T.
2593 Mikki, M. S.
2919 Miko, E. S.
9538 Mikoljacik, E. M.
3835 Mikoszewski, J.
8496 Mikova, L.
8497 Mikova, L.
544 Mikova, Z.
9528 Mikryakova, T. F.
8413 Mikucki, J.
3134 Mil'ko, A. A.
2887 Mil'ton, N. I.
2893 Milam, J. R.
10003 Milatovic, I.
634 Milavetz, B. I.
1936 Milbrath, G. M.
6197 Milbrath, G. M. (Contd)
9771 Milbrath, G. M.
5260 Milczewski, K. E. v.
3712 Miles, D. L.
3712 Miles, D. W.
4598 Miles, J. R. W.
9841 Miles, W. G.
8850 Millholland, R. D.
3519 Milicic, D.
5307 Milicic, D.
7104 Milicic, D.
9862 Milicic, D.
2648 Miljkovic, V.
9278 Milko, E. S.
3893 Milkowska-Jankowska, D.
5516 Milkowska-Jankowska, D.
4390 Milkus, B. N.
1129 Millar, C.
1135 Millar, C.
2842 Millar, C. S.
7236 Millar, C. S.
5652 Miller, A.
8604 Miller, D. E.
6013 Miller, D. L.
3814 Miller, G. H.
8172 Miller, G. H.
6985 Miller, G. S.
8819 Miller, H. N.
2322 Miller, J. B.
4608 Miller, J. B.
7134 Miller, J. D.
5770 Miller, J. M.
8563 Miller, M.
10270 Miller, M. J.
10481 Miller, M. S.
7726 Miller, M. W.
8471 Miller, M. W.
9126 Miller, P. A.
10352 Miller, P. A.
3218 Miller, P. R.
6775 Miller, R.
2650 Miller, R. D.
5650 Miller, R. D.
7094 Miller, R. D.
10610 Miller, R. E. Jr.
1648 Miller, R. V.
2040 Miller, T.
2835 Miller, T.
4858 Miller, T.
5453 Miller, T.
6387 Miller, T.
10494 Miller, U.
8892 Miller, U. M.
8862 Miller-Jones, D. N.
2560 Millett, L.
6130 Millies, K.
9980 Millikan, D. F.
175 Milling, M.
9556 Milling, M. E.
5721 Millington, D. S.
2913 Millis, N. F.
4163 Millner, P. D.
1206 Mills, B. J.
342 Mills, J. T.
6326 Mills, J. T.
8626 Mills, J. T.
8759 Mills, J. T.
1639 Mills, S. E.
1574 Millstein, C. H.
560 Milne, G. W. A.
1920 Milne, K. S.
3511 Milne, K. S.
6399 Milne, R. G.
9795 Milne, R. G.
4017 Milner, Y.
7109 Milnrath, G. M.
1731 Milosavljevic, V.
3878 Milyutin, V. N.
885 Mimura, T.
2707 Min'Kova, S. M.
4407 Minaeva, L. A.
5659 Minami, I.
10032 Minami, K.
9690 Minamisawa, M.
3305 Minard, R. D.
5180 Minarik, E.
9515 Minarik, E.
8495 Minarik, R.
6611 Minasova, G. S.
8282 Minato, H.
10410 Minato, H.
1240 Mincheva, R.
4587 Minchin, F. R.
10066 Minchin, F. R.
2998 Mine, Y.
465 Mineev, G. G.
8873 Minenkova, I. B.
726 Miners, N. A.
765 Miner, N. A.
5801 Miner, N. A.
9014 Miner, N. A.
58 Miners, J. O.
2508 Miners, J. O.
3525 Miners, J. O.
9756 Minervini Ferrante, G.
9818 Minev, K.
4762 Minghetti, A.
4249 Mingus, D.
7377 Minh Chau, D.
2716 Minhas, A. S.
8094 Minina, S. A.
9137 Minina, T. S.
1854 Mink, G. I.
6257 Mink, G. I.
9849 Mink, G. I.
6777 Mink, R. W.
3943 Minkevich, I. G.
4917 Minkevich, I. G.
2717 Minkevich, I. I.
9812 Minkevich, I. I.
6846 Minkoff, L. E.
3175 Minnikin, D. E.
2460 Mino, Y.
7561 Minoda, Y.
10099 Minoda, Y.
10563 Minoda, Y.
10564 Minoda, Y.
4593 Mir, M. V.
9877 Mir, N. M.
5662 Miraglia, G. J.
8709 Mirakhur, R. K.
10009 Mirakhur, R. K.
4362 Mircetich, S. M.
8860 Mircetich, S. M.
9822 Mircetich, S. M.
5582 Mireshnichenko, T. L.
8398 Mirgorodskaya, O. A.
2619 Mirocha, C. J.
2620 Mirocha, C. J.
7836 Mirocha, C. J.
7837 Mirocha, C. J.
7838 Mirocha, C. J.
9907 Mirocha, C. J.
9137 Mironov, V. A.
5739 Miroshnikov, A. I.
4804 Miroshnikov, A. L.
2508 Mirrington, R. N.
3355 Mirua, Y.
9529 Miryakova, T. F.
284 Mirza, J. H.
4365 Misawa, T.
9796 Misawa, T.
9797 Misawa, T.
10575 Misell, D. L.
2694 Misha, B.
5532 Mishankin, B. N.
5963 Mishankin, B. N.
4060 Mishina, M.
4061 Mishina, M.
9407 Mishina, M.

Author index

- 10102 Mishina, M. (Contd)
- 3797 Mishra, A. K.
- 3548 Mishra, A. N.
- 1024 Mishra, B.
- 1066 Mishra, B.
- 2741 Mishra, B.
- 2742 Mishra, B.
- 1082 Mishra, C. B. P.
- 8992 Mishra, G. S.
- 5596 Mishra, L.
- 899 Mishra, M. M.
- 6416 Mishra, M. M.
- 2061 Mishra, R. R.
- 8023 Mishustin, E. N.
- 8892 Mishustin, E. N.
- 1327 Misiek, M.
- 9000 Misiorny, A.
- 6796 Miskiewicz, F.
- 2396 Miskiewicz, T.
- 5860 Miskiewicz, T.
- 6796 Miskiewicz, T.
- 3373 Miskimin, D. K.
- 6027 Miskimin, D. K.
- 1591 Mislivec, P. B.
- 7831 Mislivec, P. B.
- 9595 Mislivec, P. B.
- 9596 Mislivec, P. B.
- 807 Misono, T.
- 9983 Misra, A.
- 1024 Misra, A. P.
- 1066 Misra, A. P.
- 2694 Misra, A. P.
- 2741 Misra, A. P.
- 2742 Misra, A. P.
- 2760 Misra, A. P.
- 2286 Misra, C. N.
- 6425 Misra, J. K.
- 4224 Misra, N.
- 1169 Misra, P. C.
- 1084 Misra, S. R.
- 5973 Misra, T. K.
- 190 Mital, B. K.
- 3077 Mitani, M.
- 10381 Mitani, M.
- 2842 Mitchell, C. P.
- 2862 Mitchell, C. P.
- 7236 Mitchell, C. P.
- 3518 Mitchell, D. J.
- 8297 Mitchell, D. J.
- 10439 Mitchell, G. F.
- 2787 Mitchell, N. D.
- 7858 Mitchell, R. E.
- 8586 Mitchell, R. E.
- 244 Mitchell, W. R.
- 7301 Mitchell, W. R.
- 4649 Mitchison, D. A.
- 4955 Mitchison, D. A.
- 10137 Mitchison, D. A.
- 543 Mitic, S.
- 1731 Mitic, S.
- 4375 Mitra, D. K.
- 5929 Mitra, G.
- 4786 Mitrofanova, V. G.
- 600 Mitrophanov, V. B.
- 7502 Mitropol'skaja, N. E.
- 5566 Mitrovic, M.
- 798 Mitruka, B. M.
- 1421 Mitscher, L. A.
- 2144 Mitscher, L. A.
- 9151 Mitscher, L. A.
- 9152 Mitscher, L. A.
- 2501 Mitsugi, K.
- 5028 Mitsugi, K.
- 1195 Mitsuhashi, S.
- 3670 Mitsuhashi, S.
- 7293 Mitsuhashi, S.
- 8050 Mitsuhashi, S.
- 8963 Mitsuhashi, S.
- 10129 Mitsuhashi, S.
- 5022 Mizushima, K.
- 9190 Mittal, C. P.
- 6098 Mitteilung, I.
- 8519 Mitteilung, Z.
- 6735 Mittermayer, H.
- 9474 Miura, I.
- 5467 Miura, K.
- 889 Miura, S.
- 1445 Miura, T.
- 8200 Miura, T.
- 807 Miura, Y.
- 5953 Miura, Y.
- 8041 Miura, Y.
- 8044 Miura, Y.
- 10189 Miura, Y.
- 541 Miwa, T.
- 4283 Miwatani, T.
- 8950 Miwatani, T.
- 9744 Miwatani, T.
- 9708 Mixon, A. C.
- 10331 Miyagawa, K.
- 1415 Miyairi, N.
- 6635 Miyairi, N.
- 7440 Miyairi, N.
- 8988 Miyakado, M.
- 7628 Miyakawa, A.
- 7434 Miyake, A.
- 5050 Miyake, H.
- 3770 Miyake, Y.
- 3771 Miyake, Y.
- 7453 Miyaki, T.
- 4142 Miyaki, Y.
- 7435 Miyamae, H.
- 10248 Miyamoto, E.
- 5953 Miyamoto, K.
- 9462 Miyamoto, M.
- 523 Miyamoto, Y.
- 8961 Miyamura, S.
- 883 Miyashiro, S.
- 2533 Miyashiro, S.
- 2534 Miyashiro, S.
- 3308 Miyashita, T.
- 35 Miyatake, K.
- 3403 Miyatake, M.
- 9796 Miyazaki, E.
- 9797 Miyazaki, E.
- 8150 Miyazaki, K.
- 9727 Miyazaki, K.
- 843 Miyazaki, T.
- 9393 Miyazaki, T.
- 3077 Miyazaki, Y.
- 10389 Miyazaki, Y.
- 8317 Miyazawa, F.
- 1436 Miyazawa, J.
- 6640 Miyazawa, J.
- 10376 Miyazawa, J.
- 10377 Miyazawa, J.
- 8429 Miyazawa, S.
- 10350 Mizoguchi, J.
- 2089 Mizoguchi, T.
- 4644 Mizon, F.
- 5113 Mizsak, S. A.
- 5733 Mizsak, S. A.
- 5734 Mizsak, S. A.
- 5758 Mizsak, S. A.
- 6637 Mizsak, S. A.
- 6653 Mizsak, S. A.
- 645 Mizuba, S.
- 4137 Mizuba, S.
- 9442 Mizuba, S.
- 3186 Mizuguchi, Y.
- 6481 Mizuguchi, Y.
- 2244 Mizuno, K.
- 8417 Mizuno, K.
- 10348 Mizuno, K.
- 10349 Mizuno, K.
- 10350 Mizuno, K.
- 878 Mizuno, S.
- 4134 Mizunoe, K.
- 3685 Mizushima, N.
- 8067 Mizushima, N.
- 10189 Mizutani, J.
- 8929 Mjaken'kij, V. I.
- 1160 Mjatlukova, K. O.
- 5234 Mlodecki, H.
- 2977 Mlynarcik, D.
- 445 Moawad, A. A. H.
- 7082 Mobert, L. J.
- 9682 Moch, R.
- 4407 Mochalkin, A. I.
- 424 Mochalov, Y. M.
- 2560 Mocquot, G.
- 7736 Mocquot, G.
- 7737 Mocquot, G.
- 9567 Mocquot, G.
- 3723 Mod, B. R.
- 2109 Modak, R. G.
- 7616 Modeiros
- 6529 Modir, A. R.
- 5095 Modir, V. V.
- 492 Modnikova, G. A.
- 7659 Modyanov, N. N.
- 5074 Moer, J. G.
- 2303 Moeller, J. R.
- 205 Moeller, M. W.
- 952 Moeller, M. W.
- 953 Moeller, M. W.
- 6484 Moellering, R. C. Jr.
- 9051 Moellering, R. C. Jr.
- 2611 Moen, P.
- 7040 Moermans, R. J.
- 5241 Moffat, I. W.
- 6100 Moffat, I. W.
- 643 Moffatt, J. G.
- 5588 Moffatt, J. G.
- 5589 Moffatt, J. G.
- 3589 Mogami, M.
- 8351 Mogilevchik, L. E.
- 5752 Mogyoros, M.
- 7367 Mogyoros, M.
- 7944 Mohamed, A. A.
- 339 Mohamed, N. A.
- 3539 Mohamed, N. A.
- 1594 Mohammad, A.
- 2689 Mohammad, A.
- 3475 Mohammad, A.
- 1288 Mohammadzadeh-Kiai, F.
- 499 Mohan, C.
- 5554 Mohan, C.
- 5559 Mohan, C.
- 4662 Mohan, C.
- 5641 Mohan, K.
- 1030 Mohan, S. K.
- 7972 Mohanty, S. K.
- 7153 Moharir, A. V.
- 3088 Mohelsky, H.
- 1055 Mohiddin, S.
- 1030 Mohiuddin, M. S.
- 6135 Mohr, H. E.
- 5855 Mohyuddin, M.
- 7021 Mohyuddin, M.
- 10239 Moirand, D.
- 8778 Moiseeva, M. E.
- 2292 Mojgani, P.
- 3101 Mojgani, P.
- 4573 Mokahel, M. A.
- 6267 Mokra, V.
- 8212 Molden, K. G.
- 6534 Molin, G.
- 6534 Molin, G.
- 6769 Molin, G.
- 8048 Molin, G.
- 9779 Molin, G.
- 10113 Molin, G.
- 9417 Molinari, B. M.
- 9417 Molinari, G.
- 5771 Molinari, J. L.
- 9986 Moll, J. N.
- 1830 Mollby, R.
- 1929 Mollenhauer, H. H.
- 1459 Moller, F.

Author index

- 6490 Moller, J. K.
- 1679 Moller, K. M.
- 401 Moller, W. J.
- 2050 Moller, W. J.
- 3493 Moller, W. J.
- 4362 Moller, W. J.
- 5439 Moller, W. J.
- 7219 Moller, W. J.
- 9871 Moller, W. J.
- 8980 Molnar, J.
- 10637 Molodkins, C. M.
- 8223 Moloney, A. M.
- 6432 Molot, P. M.
- 8446 Molzahn, S. W.
- 1158 Momoh, Z. O.
- 3338 Mondelli, R.
- 2891 Mondies, M.
- 7510 Monev, W.
- 10301 Monguzzi, R.
- 2231 Moni, N.
- 6449 Monib, M.
- 6450 Monib, M.
- 1730 Moniz, L.
- 865 Monnier, N.
- 7635 Monoda, Y.
- 6525 Monsan, P.
- 209 Montaghi, A.
- 3678 Montalbini, V.
- 9758 Montalbini, P.
- 954 Montanaro, D.
- 2547 Montedoro, G.
- 3356 Montedoro, G.
- 8299 Montefiore, D.
- 9876 Montemurro, G.
- 4075 Monteneccourt, B. S.
- 10911 Montgomery, G. B.
- 8459 Monties, B.
- 865 Montmitonnet, A.
- 3944 Moo-Young, M.
- 6840 Moo-Young, M.
- 6980 Moo-Young, M.
- 8337 Moo-Young, M.
- 9347 Moo-Young, M.
- 3161 Moody, G. J.
- 10559 Moody, V.
- 150 Moon, N. J.
- 7418 Moore, D. E.
- 3191 Moore, K. E.
- 4702 Moore, K. E.
- 5455 Moore, K. E.
- 1942 Moore, L. W.
- 5437 Moore, L. W.
- 5438 Moore, L. W.
- 4980 Moore, P. M.
- 9522 Moore, S.
- 2321 Moore, S. F.
- 8271 Moore, W. E. C.
- 4213 Moorjani, M. N.
- 1924 Mor, B. R.
- 3945 Mor, J. -R.
- 9857 Morales, F. J.
- 3112 Moran, J. W.
- 7729 Moran, J. W.
- 5257 Morawiak, E.
- 4564 Morawski, L.
- 198 Morcos, S. R.
- 4636 Mordevinov, N. B.
- 2005 More, B. B.
- 2713 More, B. B.
- 4492 More, B. B.
- 224 Moreau, C.
- 2773 Moreau, C.
- 5273 Moreau, C.
- 9779 Moreau, J. C.
- 8577 Moreau, M.
- 10125 Moreau, N.
- 9075 Morecombe, D. J.
- 4539 Morehart, A. L.
- 4874 Moreira, E. C.
- 6423 Moreira, E. C.
- 6423 Moreira, Y. K.
- 8958 Moreland, N. J.
- 7909 Moren, R. A.
- 5066 Moretti, R. H.
- 9239 Morgan, J.
- 10578 Morgan, J. H.
- 3957 Morgan, J. R.
- 5752 Morgan, J. R.
- 7367 Morgan, J. R.
- 8270 Morgan, J. R.
- 921 Morgan, M. E.
- 3136 Morgan, R. C.
- 10432 Morgan, W. J. B.
- 10603 Morgens, R. K.
- 2466 Morie, H.
- 5097 Morie, K.
- 8200 Morie, K.
- 7773 Morie, L.
- 1427 Morie, N.
- 5938 Morie, N.
- 5746 Morie, S.
- 873 Morie, T.
- 874 Morie, T.
- 3231 Morie, T.
- 3985 Morie, T.
- 7657 Morie, T.
- 10380 Morie, T.
- 10205 Morien, L. L.
- 3280 Moriguchi, M.
- 5976 Moriguchi, M.
- 3860 Moriguchi, Y.
- 2498 Morihara, K.
- 9149 Morikawa, A.
- 9150 Morikawa, A.
- 6635 Morimoto, Y.
- 2914 Morinaga, Y.
- 36 Morioka, K.
- 2348 Moris, H. -J.
- 7688 Morisaki, N.
- 8305 Morisberger, M.
- 1825 Morita, M.
- 4094 Moriwaiki, C.
- 4094 Moriya, H.
- 7637 Moroe, T.
- 7638 Moroe, T.
- 7639 Moroe, T.
- 7685 Moroe, T.
- 8369 Moroe, T.
- 1812 Morooka, N.
- 1575 Moroz, A. F.
- 7605 Moroz, L. N.
- 6718 Morozov, Y. M.
- 9006 Morozova, N. A.
- 7482 Morozzi, G.
- 7334 Morquer, R.
- 1891 Morrall, R. A. A.
- 6235 Morrall, R. A. A.
- 8606 Morrall, R. A. A.
- 8723 Morrall, R. A. A.
- 7352 Morris, C. A.
- 7312 Morris, D. C.
- 6936 Morris, E. R.
- 1587 Morris, G. K.
- 6991 Morris, G. K.
- 5221 Morris, H. A.
- 9564 Morris, H. A.
- 6952 Morris, J. A.
- 10432 Morris, J. A.
- 2249 Morris, M. D.
- 2343 Morris, S.
- 7365 Morris, V. J.
- 2806 Morrison, L. S.
- 6328 Morrison, R. H.
- 9615 Morrison, S. M.
- 2580 Morrissey, P. A.
- 7769 Morrissey, P. A.
- 7498 Morrow, J. E.
- 10477 Morrow, J. J.
- 1527 Morse, E. V.
- 7465 Morse, E. V.
- 4260 Morse, R. E.
- 647 Morse, S. A.
- 4838 Morse, S. I.
- 371 Morschackij, A. A.
- 9002 Mortarini, V.
- 8627 Mortensen, K.
- 7518 Mortimer, P. P.
- 10344 Morton, G. O.
- 10336 Morton, J. B.
- 7242 Morton, L. H. G.
- 7244 Morton, L. H. G.
- 8009 Morton, L. H. G.
- 8118 Morvan, D.
- 9827 Morvan, G.
- 5474 Moryson, C. J.
- 855 Mosbach, K.
- 5977 Mosbach, K.
- 9318 Mosbach, K.
- 2301 Moseley, R. H.
- 1984 Moses, G. J.
- 6388 Mosher, D. P.
- 3053 Moskalyk, R. E.
- 8398 Moskvichyov, B. V.
- 6742 Mosley, E. B.
- 2792 Mosolov, V. V.
- 130 Mossel, D. A. A.
- 3192 Mossel, D. A. A.
- 3374 Mossel, D. A. A.
- 6986 Mossel, D. A. A.
- 8469 Mossel, D. A. A.
- 9259 Mossel, D. A. A.
- 9589 Mossel, D. A. A.
- 3207 Mossop, D. W.
- 6471 Mostafa, S. A.
- 8441 Mostek, J.
- 2345 Mostofar, A. B. M.
- 6647 Mosunova, L. V.
- 10454 Mote, C. R.
- 1996 Mote, U. N.
- 2677 Mote, U. N.
- 2155 Motina, G. L.
- 5599 Motina, G. L.
- 6905 Motohara, K.
- 10409 Motoki, Y.
- 5411 Motoyoshi, F.
- 2543 Mou, D. G.
- 8265 Mou, D. G.
- 1734 Mou, L.
- 3638 Mouchacca, J.
- 1466 Mouchet, J.
- 7743 Mouillet, L.
- 7307 Moulding, T. S.
- 1810 Moule, Y.
- 8331 Moura, I.
- 2442 Moura, J. J. G.
- 2443 Moura, J. J. G.
- 8331 Moura, J. J. G.
- 9567 Mourgues, R.
- 6494 Mouso de Cachi, N.
- 5874 Mouton, R. P.
- 3828 Movileanu, D.
- 7606 Movitz, J.
- 4114 Moyed, H. S.
- 1613 Moyer, J. W.
- 2100 Mozumdar, A.
- 6520 Mroczicki, S.
- 5546 Mucchielli, A.
- 10140 Mucchielli, A.
- 9175 Muchmore, C. B.
- 1540 Muchnik, F. V.
- 3029 Muckter, H.
- 8610 Muehlbauer, F. J.
- 1421 Mueller, S. L.
- 10116 Mueller, R.
- 9151 Mueller, S. L.
- 9152 Mueller, S. L.
- 1923 Mueller, W. C.
- 4086 Muizniex, I. O.
- 4938 Muirhead, P. A.
- 4430 Mukerjee, N.

Author index

- 1949 Mukerji, K. G.
 2661 Mukerji, K. G.
 3484 Mukhaerjee, N.
 101 Mukhamedzhanova, T. G.
 9711 Mukherjee, A.
 9050 Mukherjee, B. B.
 3657 Mukherjee, M.
 8147 Mukherjee, M.
 8391 Mukherjee, M.
 386 Mukherjee, N.
 5736 Mukherjee, P. K.
 8645 Mukherjee, P. K.
 1110 Mukhopadhyay, A. N.
 7129 Mukhopadhyay, D. K.
 283 Mukhopadhyay, R.
 1879 Mukhopadhyay, S.
 2702 Mukhopadhyay, S.
 8749 Mukhopadhyay, S.
 4034 Mukhopadhyay, S. N.
 5162 Mukhopadhyay, S. N.
 5524 Mukhorskaya, V. A.
 7986 Muko, H.
 8837 Mullanax, M. W.
 122 Mulcock, A. P.
 3876 Mulcock, A. P.
 6983 Mulcock, A. P.
 6803 Mulczyk, M.
 7588 Mulczyk, M.
 7757 Mulder, H.
 298 Mulder, J. L.
 4230 Mulder, R. W. A. W.
 4238 Mulder, R. W. A. W.
 7783 Mulder, R. W. A. W.
 9674 Mulder, R. W. A. W.
 170 Mulder, S. J.
 4209 Mulder, S. J.
 2346 Mullan, B. J.
 2403 Muller, E.
 8435 Muller, F.
 3208 Muller, G.
 3098 Muller, H. J.
 7119 Muller, I.
 4796 Muller, J. M.
 9649 Muller, L. D.
 7297 Muller, R.
 1786 Muller, U.
 5254 Muller, U.
 7049 Muller, U.
 2289 Muller, W.
 6445 Muller, W. F.
 409 Mullette, K. J.
 2798 Mullins, C. A.
 10628 Mumford, D. L.
 3682 Munakata, A. K.
 4399 Munasinghe, H. L.
 131 Mundt, J. O.
 4222 Mundt, J. O.
 8724 Munford, R. S.
 2016 Munger, G. D.
 4218 Munitis, M. T.
 3200 Munjal, R. C.
 8991 Munjka, I.
 1997 Munnecker, D. E.
 4548 Munnecker, D. E.
 113 Munnecker, D. M.
 5954 Munnecker, D. M.
 5561 Munoz, E.
 6820 Munoz, L.
 4280 Munoz, P. A.
 1938 Munshi, A. H.
 8782 Munshi, G. D.
 9922 Munshi, G. D.
 1755 Munzer, R.
 6087 Munzer, R.
 7377 Muoi, Muoi, M.
 8400 Murad, F. E.
 4576 Murado, M. A.
 145 Murakami, H.
 5818 Murakami, T.
 7952 Murakaru, G. N. W.
 3341 Murakawa, S.
 8041 Murakawa, S. - I.
 8044 Murakawa, S. - I.
 2197 Murakawa, T.
 5661 Murakawa, T.
 5674 Murakawa, T.
 103 Muraki, H.
 5294 Murakishi, H. H.
 9624 Muralidhar, K. S.
 10409 Muramatsu, I.
 4110 Muramatsu, N.
 9338 Muramoto, K.
 3367 Muranaka, M.
 1832 Murant, A. F.
 1833 Murant, A. F.
 2499 Murao, A.
 2498 Murao, S.
 4051 Murao, S.
 5028 Murao, S.
 7626 Murao, T.
 4127 Muraoka, Y.
 5723 Muraoka, Y.
 10355 Muraoka, Y.
 891 Muras, V. A.
 8422 Muras, V. A.
 9006 Murav'ev, V. E.
 7357 Muravyeva, S. A.
 8110 Muravyeva, S. A.
 10014 Murdoch, C. W.
 9351 Murdoch, A. L.
 194 Murdoch, D. I.
 9608 Murdoch, D. I.
 5950 Muri, A. M.
 4893 Murken, A. H.
 3186 Murohashi, T.
 5922 Murooka, Y.
 662 Murphy, B. R.
 3822 Murphy, B. R.
 3441 Murphy, D. W.
 10627 Murphy, M. L.
 9725 Murphy, P. A.
 4946 Murphy, R.
 5061 Murphy, R. A.
 6721 Murray, C. M.
 9335 Murray, G. J.
 6672 Murray, J. E.
 8212 Murray, J. E.
 10117 Murray, M. L.
 4971 Murray, P. R.
 7303 Murray, P. R.
 5140 Murray, R. G. E.
 1191 Murrell, W. G.
 9524 Murrmann, D. N.
 388 Murthy, N. B. K.
 978 Murthy, T. R. K.
 1959 Murty, G. V. G. K.
 5119 Murzakov, B. G.
 8410 Muschiolik, G.
 1371 Musiichenko, A. N.
 10215 Musil, M.
 4813 Musilek, V.
 8372 Musilek, V.
 5296 Muskett, A. E.
 10073 Mussa, A. E. A.
 5969 Mussell, H.
 188 Musselman, J. F.
 7168 Mustafee, T. P.
 8721 Mustafee, T. P.
 8883 Mustafee, T. P.
 8340 Mustranta, A.
 4326 Muszanskij, S.
 6463 Mutaftschiev, S.
 6465 Mutaftschiev, S.
 1204 Mutai, M.
 5422 Muthappa, B. N.
 9977 Muthappa, B. N.
 2898 Muthukrishnan, P.
 1086 Muthusamy, M.
 885 Muto, N.
 5558 Mutreja, H. C.
 1580 Muttay, P. R.
 5391 Mutto, S.
 2941 Myembe, T. L.
 5286 Muyldermans, G.
 7687 Muzono, J.
 606 Myasnikova, L. G.
 1208 Myasnikova, L. G.
 4792 Myasnikova, L. G.
 10596 Mychasiw, F.
 6168 Myers, A.
 2497 Myers, D. V.
 7441 Myers, E.
 3557 Myers, H. S.
 4990 Myers, M. N.
 7465 Myhrom, E. P.
 5541 Mylnikova, S. I.
 8964 Mylnikova, S. I.
 2659 Mylyk, O. M.
 7487 Myskow, W.
 8902 Mytton, L. R.
 7062 N'Diaye, A. L.
 2912 N'Guyen, M. - H.
 9406 Nabeshima, S.
 9407 Nabeshima, S.
 5097 Nabetani, O.
 8511 Nacescur, N.
 7398 Nachfolger, S. J.
 9853 Nachmias, A.
 4834 Nadaichik, L. V.
 10093 Nadarajah, M.
 881 Nadelson, J.
 5557 Nadkarny, V. V.
 6500 Nadkarny, V. V.
 7327 Nadkarny, V. V.
 10395 Nadzan, A. M.
 2673 Naeir, N. G.
 1399 Nagabhushan, T. L.
 5643 Nagabhushan, T. L.
 9214 Nagahama, T.
 1598 Nagai, S.
 5903 Nagai, S.
 5904 Nagai, S.
 9321 Nagai, S.
 9374 Nagai, S.
 4403 Nagaich, B. B.
 5386 Nagaich, B. B.
 6275 Nagaich, B. B.
 6290 Nagaich, B. B.
 1413 Naganawa, H.
 4147 Naganawa, H.
 5149 Naganawa, H.
 5896 Naganawa, H.
 6628 Naganawa, H.
 9462 Naganawa, H.
 10355 Naganawa, H.
 1328 Nagano, M.
 2552 Nagao, K.
 2701 Nagao, N.
 868 Nagaoka, M.
 6989 Nagaoka, T.
 1088 Nagaraja Rao, K. S.
 5223 Nagaraja Rao, K. S.
 5339 Nagarajan, S.
 2466 Nagasaki, S.
 9394 Nagasaki, S.
 1427 Nagasawa, T.
 3258 Nagasawa, T.
 5938 Nagasawa, T.
 3369 Nagata, E.
 761 Nagatani, T.
 6483 Nagatsui, I.
 7254 Nagatsuka, T.
 10537 Nagayama, A.
 4365 Nagayama, H.
 8324 Nagayama, K.
 5127 Nagel, D. W.
 4857 Nagel, R.
 3446 Naghskij, J.
 3903 Nagoya, T.

Author index

6133	Naguib, M. M.	5100	Nakanishi, K.	449	Napoli, C. A.
6661	Nagy, A. E.	5101	Nakanishi, K.	2730	Naqvi, A.
5810	Nagy, E.	7586	Nakanishi, N.	2740	Naqvi, A.
5862	Nagy, G.	2567	Nakanishi, T.	4014	Naqvi, Q. A.
3401	Nagy, G. B.	2607	Nakanishi, T.	7160	Naqvi, Q. A.
304	Nagy, G. S.	6623	Nakanishi, T.	353	Naqvi, S. H. Z.
8707	Nagy, G. Sz.	9123	Nakanishi, T.	6871	Naqvi, S. H. Z.
1234	Naider, F.	9095	Nakano, H.	7114	Naqvi, S. H. Z.
6318	Naidu, R.	2218	Nakano, J.	4750	Nara, K.
8711	Naidu, R.	10419	Nakano, J. H.	4751	Nara, K.
5079	Naik, M. S.	1677	Nakano, M.	4752	Nara, K.
59	Naim, N.	8150	Nakano, M.	4760	Nara, K.
5080	Nainan, O.	8539	Nakano, T.	5710	Nara, T.
1761	Nair, K. K. S.	35	Nakano, Y.	9149	Nara, T.
0368	Nair, M. S. R.	7599	Nakano, Y.	9150	Nara, T.
5235	Nair, N. G.	9355	Nakano, Y.	8392	Narahashi, Y.
8679	Nair, R. R.	584	Nakao, H.	9916	Narania, K.
10444	Naishtein, S. Ya.	1328	Nakao, H.	4437	Narasimham, P.
7222	Naito, H.	4737	Nakao, H.	890	Narayanan, K.
8966	Naito, H.	7056	Nakao, M.	2566	Narayanan, K. M.
9153	Naito, I.	4731	Nakao, Y.	1849	Narayanamy, P.
7455	Naito, T.	4750	Nakao, Y.	2751	Narendrar, D. U.
4049	Najima, M.	4751	Nakao, Y.	2673	Nareish, J. S.
5183	Nakadai, T.	4752	Nakao, Y.	791	Nariani, T. K.
920	Nakae, T.	4760	Nakao, Y.	1950	Nariani, T. K.
3922	Nakae, T.	6568	Nakao, Y.	5355	Nariani, T. K.
6351	Nakae, Y.	8334	Nakao, Y.	7153	Nariani, T. K.
1436	Nakagawa, A.	8335	Nakao, Y.	8996	Nariani, T. K.
3809	Nakagawa, A.	6088	Nakase, T.	9153	Narita, Y.
5719	Nakagawa, A.	10403	Nakashima, S.	179	Narucka, U.
5890	Nakagawa, A.	2644	Nakashima, Y.	5570	Naruse, H.
9466	Nakagawa, A.	2218	Nakata, M.	1391	Naruto, S.
10376	Nakagawa, A.	9356	Nakatani, H.	9614	Nasir, J. M.
9153	Nakagawa, S.	2242	Nakatsuka, K.	7065	Nasini, G.
8961	Nakagawa, Y.	7599	Nakatsuka, T.	7826	Nasini, G.
6588	Nakagome, T.	5748	Nakatsukasa, W. M.	5141	Nasr, E. M. M.
578	Nakaguchi, O.	9775	Nakaya, K.	1741	Nasr, M. A.
7293	Nakahara, H.	8319	Nakayama, K.	5226	Nasr, M. A.
7294	Nakahara, H.	20	Nakayama, M.	5183	Nasuno, S.
8050	Nakahara, H.	5056	Nakayama, M.	4355	Natal'ina, O. B.
8944	Nakahara, H.	5057	Nakayama, M.	9977	Nataraj, T.
3337	Nakahara, M.	6820	Nakayama, T.	2692	Natarajan, B. S.
6468	Nakahara, T.	5723	Nakayama, Y.	4574	Natarajan, K.
10099	Nakahara, T.	5030	Nakazawa, A.	1423	Natarajan, S.
70	Nakai, S.	6833	Nakazawa, H.	3078	Natera, V.
71	Nakai, S.	8897	Nakos, G.	178	Nath, H.
7750	Nakaji, Y.	5909	Nalbandyan, R. M.	1890	Nath, R.
7708	Nakajima, O.	7914	Nalobova, V. L.	5460	Nath, V.
2538	Nakajima, S.	9392	Namba, Y.	8020	Nath, V.
5895	Nakama, K.	1050	Nambiar, K. K. N.	239	Natori, S.
5708	Nakama, S.	5073	Nambiar, P. T. C.	5281	Natori, S.
2197	Nakamoto, S.	3797	Nanda, G.	3719	Natsume, T.
5661	Nakamoto, S.	5089	Nanda, S. K.	5321	Nault, L. R.
4127	Nakamura, H.	5970	Nanda, S. K.	9816	Naumann, G.
5893	Nakamura, I.	8576	Nandan, R.	7767	Naumann, H. D.
883	Nakamura, J.	8924	Nande, J.	8549	Naumann, H. D.
2533	Nakamura, J.	407	Nandi, B.	9676	Naumann, H. D.
2534	Nakamura, J.	976	Nandi, B.	2870	Naumann, K.
6686	Nakamura, K.	2042	Nandi, B.	2189	Naumann, P.
3981	Nakamura, M.	2849	Nandi, B.	6607	Naumchik, G. N.
848	Nakamura, N.	3203	Nandi, B.	5180	Navara, A.
2462	Nakamura, N.	3495	Nandi, B.	9515	Navara, A.
2463	Nakamura, N.	4347	Nandi, B.	6525	Navarro, J. M.
3264	Nakamura, N.	7187	Nandi, B.	8663	Navarro, L.
3265	Nakamura, N.	8790	Nandi, B.	1210	Navashin, S. M.
5939	Nakamura, N.	9908	Nandi, B.	1382	Navashin, S. M.
1557	Nakamura, R. M.	9962	Nandi, B.	3054	Navashin, S. M.
31	Nakamura, S.	6511	Nandi, B. B.	4722	Navashin, S. M.
3274	Nakamura, S.	8880	Nandi, J.	8351	Navashin, S. M.
3670	Nakamura, S.	8782	Nandpur, K. S.	8414	Navashin, S. M.
4052	Nakamura, S.	9922	Nandpur, K. S.	9099	Navashin, S. M.
5708	Nakamura, S.	329	Nandris, D.	811	Naworal, J. D.
6628	Nakamura, S.	3653	Nandwana, R. P.	3595	Nayak, M. L.
7687	Nakamura, S.	1360	Nanninga, N.	4487	Nayak, P.
7986	Nakamura, S.	580	Nannini, G.	7135	Nayar, S. K.
9481	Nakamura, S.	1691	Naoki, N.	3034	Naylor, J. H. C.
854	Nakamura, T.	7056	Naoki, Y.	3035	Naylor, J. H. C.
2218	Nakamura, Y.	3043	Naperty, S.	9788	Naylor, V. D.
9728	Nakane, A.	5706	Napier, E. J.	8692	Nayudu, M. V.
816	Nakanishi, E.	2644	Napiorkowski, P.	2661	Nayyar, V. L.

Author index

- 882 Nazaruk,N.I.
1521 Nazer,A.H.K.
7605 Nazimov,I.V.
5511 Nazina,T.N.
8475 Nazum,C.
343 Ndbuzur,O.C.
8774 Neagu,M.I.
7717 Neal,J.J.
5077 Neal,W.D.
10354 Neal,W.D.
9839 Neales,T.F.
10496 Neave,F.K.
1556 Neblett,T.R.
3963 Neblett,T.R.
9097 Nebuloni,M.
1373 Nechaeva,N.P.
9278 Nedbaylo,A.N.
34 Neel,J.
9190 Neelakantan,S.
2051 Neely,D.
2852 Neely,D.
10008 Neely,D.
6223 Neergaard,P.
5915 Nees,S.
2282 Nefedova,L.A.
2916 Nefedova,M.Y.
5519 Nefedova,M.Y.
5691 Nefelova,M.V.
2227 Neff,A.W.
4043 Neff,D.N.
5654 Nehashi,T.
2668 Nehemiah,K.M.A.
9838 Nehemiah,K.M.A.
4872 Nehls,R.
7955 Neigo,S.
3219 Neilands,J.B.
1493 Neilson,A.H.
3026 Neish,G.A.
6654 Nell,H.C.
7232 Nelson,E.E.
135 Nelson,F.E.
7722 Nelson,F.E.
69 Nelson,G.E.N.
4124 Nelson,G.E.N.
5042 Nelson,G.E.N.
9434 Nelson,G.E.N.
972 Nelson,G.H.
973 Nelson,G.H.
1108 Nelson,J.
3562 Nelson,J.
3570 Nelson,J.
4491 Nelson,J.
7976 Nelson,J.
8836 Nelson,J.A.
8995 Nelson,J.D.
5203 Nelson,K.J.
1898 Nelson,L.A.
5504 Nelson,L.M.Jr.
5335 Nelson,L.R.
7881 Nelson,L.R.
2762 Nelson,M.R.
7584 Nelson,P.E.
946 Nelson,R.A.
275 Nelson,R.R.
5325 Nelson,R.R.
5327 Nelson,R.R.
2296 Nelson,S.G.
5571 Nemcova,D.
10059 Nemec,A.
4149 Nemec,P.
5616 Nemec,P.
5617 Nemec,P.
5999 Nemec,P.
1952 Nemec,S.
2297 Nemeron,N.L.
5182 Nemoto,S.
7462 Nemyrya,V.I.
4294 Nener,V.L.
1021 Nener,Y.L.
1844 Nener,Y.L.
2673 Nener,Y.L. (Contd)
6330 Nener,Y.L.
7790 Neogy,B.N.
6941 Neogy,R.K.
10090 Nerkar,D.P.
10428 Nerkar,D.P.
4813 Nerud,F.
2085 Nery,M.
9440 Nes,W.R.
9703 Nesheim,S.
6876 Nesse,N.
2450 Nester,E.W.
6937 Nester,E.W.
5475 Nesterenko,O.A.
2496 Nesterova,N.G.
2756 Netor,J.R.
8412 Netrval,J.
7955 Netzer,D.
1302 Neu,H.C.
1366 Neu,H.C.
1428 Neu,H.C.
1429 Neu,H.C.
4826 Neu,H.C.
10238 Neu,H.C.
7328 Neuhaus,D.W.
7328 Neuhaus,F.C.
5650 Neuss,N.
5748 Neuss,N.
8049 Nevers,P.
8946 Nevers,P.
4599 Neville,M.E.
1920 New,P.B.
7281 New,P.B.
2982 Newell,R.D.
5695 Newell,R.D.
10055 Newhook,F.J.
590 Newman,H.
6722 Newman,J.S.
2500 Newman,P.B.
4916 Newman,P.B.
5212 Newton,E.
4210 Newton,K.G.
5499 Neyra,C.A.
5500 Neyra,C.A.
8900 Ng,H.L.
6863 Ng,B.H.
9248 Ngian,K.F.
7377 Ngoc Linh,N.
1232 Nguyen,N.-D.
1233 Nguyen,N.-D.
1627 Nhan,H.B.
1359 Niazi,S.
4596 Nichik,M.M.
10037 Nicholaichuk,W.
5512 Nicholas,D.J.D.
6457 Nicholas,D.J.D.
3196 Nicholls,K.M.
1972 Nicholls,P.J.
1145 Nicholls,T.H.
1152 Nicholls,T.H.
7103 Nichols,C.
7878 Nichols,C.
3553 Nichols,L.P.
9636 Nicholson,J.W.G.
9641 Nicholson,J.W.G.
4332 Nicholson,R.L.
5347 Nicholson,R.L.
6215 Nicholson,R.L.
6218 Nicholson,R.L.
6332 Nicholson,R.L.
7067 Nicholson,R.L.
8396 Nick,M.
116 Nickerson,W.J.
25 Nicolet,J.
4566 Nicolson,T.H.
10450 Nicot,J.
9869 Niehaus,F.
10587 Nielsen,B.R.
8096 Nielsen,E.
6238 Nielsen,J.
8356 Nielsen,J. (Contd)
9794 Nielsen,J.
6373 Nielsen,L.W.
2565 Nielsen,V.H.
6042 Nielsen,V.H.
9805 Nielson,R.F.
679 Nielson,V.H.
5855 Niemann,E.G.
7021 Niemann,E.G.
5441 Niemela,S.
3174 Niemela,S.I.
3127 Niemi,M.
249 Nienhaus,F.
410 Nienhaus,F.
6260 Nienhaus,F.
7173 Nienhaus,F.
8591 Nienhaus,F.
3817 Nieto,M.
5567 Nigam,S.S.
7390 Nightingale,C.H.
2738 Nigmanov,C.N.
1426 Niida,T.
7853 Niilo,L.
9379 Niimura,T.
9583 Niinivaara,F.P.
5739 Nikiforov,V.V.
9232 Nikitenko,A.G.
10044 Nikitin,D.I.
9257 Nikitin,V.A.
7458 Nikitina,G.P.
3520 Nikitina,K.V.
2983 Nikitina,T.N.
1887 Niklas,W.
6723 Nikodemus,I.
824 Nikol'skaja,E.A.
828 Nikol'skaja,E.A.
5586 Nikolaeva,I.S.
1240 Nikolov,P.
2628 Nikonova,T.V.
10444 Nikula,R.G.
7191 Niles,E.V.
4677 Nillia,A.
6041 Nilson,K.M.
5646 Nilsson,L.
5700 Nilsson,L.
8154 Nilsson,L.
315 Nimbalkar,M.R.
1904 Nimbalkar,M.R.
2224 Nimio,O.
6916 Nimitan,E.
2513 Nimmich,W.
7255 Nioh,I.
7070 Nip,W.K.
2025 Nir,N.G.
8706 Nirenberg,H.J.
5422 Nirmala Kumari,K.
591 Nisbet,J.J.
2197 Nishida,M.
2998 Nishida,M.
5661 Nishida,M.
7687 Nishida,S.
9364 Nishida,Y.
646 Nishide,T.
3685 Nishigaki,S.
8067 Nishigaki,S.
3281 Nishihara,M.
4143 Nishikawa,K.
4247 Nishikawa,K.
758 Nishikawa,Y.
2243 Nishikiori,T.
7317 Nishimura,K.
8578 Nishimura,S.S.
3498 Nishimura,S.
523 Nishimura,T.
9135 Nishimura,Y.
10307 Nishimura,Y.
672 Nishine,A.
7130 Nishio,M.
2917 Nishio,N.
6467 Nishio,N.

Author index

- 9321 Nishio, N. (Contd)
9475 Nishio, N.
2466 Nishioka, Y.
9358 Nishira, H.
9359 Nishira, H.
3402 Nishita, K. D.
8578 Nishitsutsuki-Uwo, J.
192 Nishiyama, J.
5589 Nishiyama, S.
9088 Nishiyama, S.
1598 Nishizawa, Y.
9201 Nishimi, M.
20 Nisizawa, K.
2649 Niskanen, A.
4279 Niskanen, A.
7521 Niskanen, A.
8556 Niskanen, A.
8037 Nissen, T. V.
6911 Nissler, K.
8961 Nitahara, Y.
10484 Nitkowski, M. F.
10040 Nitta, T.
8739 Nitzany, F. E.
7041 Nivas, S. C.
3080 Noah, D.
898 Noble, A. C.
10635 Noble, G. R.
1295 Noble, W. C.
3079 Nobuhara, M.
8538 Nocker, F.
7664 Noda, Y.
8819 Noegel, K. A.
4280 Noelken, M. E.
8326 Noguchi, S.
7319 Nolan, C. M.
2656 Nolla, J. A. B.
4058 Nollstadt, K. H.
6527 Nolte, H.
3985 Nomaguchi, H.
2224 Nomi, R.
2552 Nomi, R.
5588 Nomura, A.
8339 Nomura, D.
5659 Nomura, H.
7786 Nomura, K.
4042 Nomura, M.
2998 Nonoyama, S.
7757 Noonen, A.
6327 Noon, R. A.
1565 Nord, C. E.
1830 Nord, C. E.
2166 Nord, C. E.
2931 Nord, C. E.
7369 Nord, C. E.
9036 Nord, C. E.
10543 Nord, C. E.
4741 Norden, C. W.
9935 Nordgaard, J.
9366 Nordin, I.
3676 Nordstrom, K.
2822 Norelli, J. L.
9000 Noren, J. O.
482 Norenkova, I. K.
3676 Norhark, S.
7018 Norris, E. L.
2410 Norris, J. R.
7165 Norris, L. A.
4689 Norris, P.
10469 Norman, G.
2589 Northolt, M. D.
4720 Norton, R.
7074 Nose, N.
4110 Nosoh, Y.
30 Notario, V.
2465 Notario, V.
3277 Notario, V.
1745 Notermans, S.
4238 Notermans, S.
7523 Notermans, S.
7535 Notivsky, T. J.
5654 Noto, T.
4674 Nouch, R. B.
9980 Novack, H.
4287 Novacky, A.
8032 Novacky, A.
8033 Novacky, A.
3720 Novak, A. F.
3723 Novak, A. F.
9591 Novak, A. F.
6754 Novak, B.
10443 Novak, B.
7221 Novak, M.
4705 Novakova, E.
9428 Novello, C.
2846 Novikov, N. A.
450 Novikova, A. T.
1375 Novikova, L. M.
3047 Novikova, L. M.
4680 Novikova, M. I.
492 Novitskii, K. Yu.
8581 Novoselova, G. N.
6298 Novotny, J.
3103 Novotny, U.
2292 Novotny, V.
4698 Nowak, G. A.
4251 Nowakowska-Marszalek, T.
6789 Nowicki, B.
9411 Nozaki, S.
7688 Nozoe, S.
3524 Nozu, M.
3531 Nozu, M.
4047 Nozu, Y.
9426 Nozu, Y.
9883 Nozue, M.
8974 Nuhrich, A.
6625 Nukina, M.
811 Nulton, C. P.
4060 Numa, S.
4061 Numa, S.
7455 Numata, K.
9958 Numic, R. M.
8123 Nummy, L. J.
6627 Nunn, A. D.
4794 Nunning, B. C.
7702 Nunokawa, Y.
758 Nunomura, K.
9583 Nurmi, E.
1697 Nurminen, T.
2059 Nusbaum, C. J.
8365 Nutschidze, N. N.
8109 Nuttall, P. A.
8476 Nuzum, C.
6970 Nykanen, L.
1578 Nyberg, I.
8340 Nybergh, P.
10065 Nyborg, M.
1667 Nyburg, S. C.
8376 Nyeste, L.
83 Nyfeler, R.
6958 Nyfeler, R.
199 Nyiredy, I.
3354 Nyirio, L. K.
3533 Nyitari, A.
6970 Nykanen, I.
6971 Nykanen, I.
6970 Nykanen, L.
6971 Nykanen, L.
7784 Nyman, M. A.
600 Nys, P. S.
2193 Nys, P. S.
4100 Nys, P. S.
4101 Nys, P. S.
4756 Nys, P. S.
5964 Nys, P. S.
8379 Nys, P. S.
8380 Nys, P. S.
8381 Nys, P. S.
9424 Nys, P. S.
8453 Nystrom, J. M.
2551 Nyuksha, Y. P.
7613 Nyuksha, Y. P. (Contd)
2678 Nyvall, R. F.
5311 Nyvall, R. F.
3431 O'Brien, C. A.
10612 O'Brien, P. N.
6722 O'Brien, R. T.
3315 O'Brien, T. A.
4720 O'Brien, T. F.
581 O'Callaghan, C. H.
6538 O'Connell, M. P.
4926 O'Connor, F.
628 O'Connor, S.
6765 O'Dear, K.
7780 O'Dell, G. D.
3673 O'Dell, N. M.
3674 O'Dell, N. M.
10606 O'Donnell, K. L.
2073 O'Garra, F.
4580 O'Garra, F.
582 O'Grady, F.
1333 O'Grady, F.
9046 O'Grady, F.
7721 O'Keefe, M. F.
3373 O'Leary, V.
149 O'Leary, V. S.
5366 O'Loughlin, G. T.
234 O'Neil, J. B.
2095 O'Neill, J. G.
5000 O'Rourke, C. J.
4062 O'Sullivan, J.
4448 Oakes, A. J.
8587 Oba, H.
5593 Obara, T.
3682 Obara, U.
3275 Obara, T.
9392 Obara, T.
5348 Obbink, J. G.
2123 Oberender, H.
9000 Oberg, B.
8758 Oberg, V. V.
9155 Oberwinkler, F.
4236 Obiger, G.
169 Oblinger, J. L.
4211 Oblinger, J. L.
8916 Oblisami, G.
619 Oblozhko, L. S.
8131 Oblozhko, L. S.
9111 Oblozhko, L. S.
10263 Oblozhko, L. S.
4897 Obradovic, L.
4681 Obrosova-Serova, N. P.
4803 Ochiai, K.
8961 Ochiai, H.
7675 Ochiai, K.
2804 Ockendon, J. G.
6080 Ockerman, H. W.
7014 Ockerman, H. W.
5530 Ocklitz, H. W.
3070 Oda, B. T.
2498 Oda, K.
2499 Oda, K.
10380 Oda, T.
7273 Odeyemi, O.
4617 Odier, E.
10096 Odinokov, G. M.
1780 Odlaug, T. E.
9609 Odlaug, T. E.
9687 Odlaug, T. E.
8459 Odoer, E.
9425 Odugbemi, T. O.
3920 Oellers, B.
6848 Oesterheld, D.
10293 Offer, H.
8054 Oganessian, M. G.
1427 Ogata, K.
3217 Ogata, K.
3258 Ogata, K.
5938 Ogata, K.
9530 Ogata, K.

Author index

- 3065 Ogata, S.
3066 Ogata, S.
3067 Ogata, S.
5034 Ogawa, H.
5654 Ogawa, H.
5933 Ogawa, K.
7672 Ogawa, K.
36 Ogawa, M.
5442 Ogawa, M.
5443 Ogawa, M.
8539 Ogawa, M.
3983 Ogawa, T.
6593 Ogawa, Y.
6847 Ogawara, H.
9411 Ogawara, H.
8150 Ogino, O.
9744 Ogiso, Y.
7652 Ogrydziak, D. M.
7712 Oguchi, H.
9804 Ogundana, S. K.
9913 Ogundana, S. K.
47 Ohasa, S.
10595 Ohashi, D. K.
4087 Ohashi, H.
7802 Ohashi, T.
9712 Ohashi, Y.
3365 Ohchi, M.
4087 Ohimiya, K.
7081 Ohishi, I.
7850 Ohishi, I.
9279 Ohishi, I.
5977 Ohlson, S.
1892 Ohm, H. W.
7003 Ohmura, K.
5125 Ohmura, S.
7677 Ohmura, S.
1630 Ohmori, D.
8952 Ohmori, H.
70 Ohmura, Y.
71 Ohmura, Y.
816 Ohno, H.
8044 Ohno, K.
9462 Ohno, M.
8988 Ohno, N.
6240 Ohno, D.
7083 Ohsaka, A.
8578 Ohsawa, A.
2242 Ohshima, M.
8988 Ohshio, H.
9597 Ohta, T.
10086 Ohta, T.
10420 Ohtawara, M.
70 Ohtsuka, C.
71 Ohtsuka, S.
9203 Ohwaki, K.
2470 Ohya, T.
5953 Ohya, M.
3308 Ohya, T.
7044 Ohya, Y.
9645 Ohya, Y.
10095 Oi, S.
843 Oikawa, N.
9393 Oikawa, N.
2243 Oiwa, R.
5719 Oiwa, R.
5804 Ojajarvi, J.
10495 Ojajarvi, J.
7471 Ojalvo, S. I.
1320 Ojasoo, T.
4247 Oka, H.
830 Oka, I.
2461 Oka, I.
4080 Oka, I.
5513 Oka, M.
7702 Oka, S.
2220 Oka, T.
2498 Oka, T.
5622 Okabe, M.
2089 Okabe, T.
5710 Okachi, R.
9149 Okachi, R. (Contd)
9150 Okachi, R.
9382 Okada, A.
4090 Okada, G.
4091 Okada, G.
3367 Okada, H.
3369 Okada, H.
6984 Okada, H.
7687 Okada, I.
2197 Okada, N.
4189 Okada, N.
5661 Okada, N.
5906 Okada, N.
6506 Okada, Y.
8451 Okafori, N.
2180 Okami, Y.
2181 Okami, Y.
5717 Okami, Y.
10235 Okami, Y.
1634 Okamoto, H.
8930 Okamoto, K.
8416 Okamoto, M.
780 Okamoto, R.
3079 Okamoto, T.
5922 Okamura, H.
10373 Okamura, K.
3337 Okazaki, H.
5953 Okazaki, M.
8041 Okazaki, M.
8044 Okazaki, M.
5717 Okazaki, T.
7040 Okerman, F.
6611 Okhotnikova, V. F.
6506 Okinaka, M.
2921 Okio, D. M.
3296 Okon, Y.
4967 Okon, Y.
1583 Okrent, D. H.
5317 Oku, H.
8788 Oku, H.
3589 Okuda, S.
10408 Okuda, T.
853 Okumura, S.
3784 Okuno, T.
8624 Okuno, T.
72 Okutani, K.
8415 Okutani, K.
9455 Okutani, K.
6561 Okutani, T.
2539 Okuyama, E.
3533 Olah, T.
487 Olarte, J.
6479 Olarte, J.
432 Old, K. M.
6427 Old, K. M.
9831 Oldfield, G. N.
7692 Oldshue, J. Y.
492 Oleinik, A. F.
3155 Olembo, R.
3690 Olenick, J. G.
8503 Olgaard, K.
3827 Olinesci, E.
7565 Oliver, G.
209 Olivetti, A.
4810 Olkhovatova, O. L.
9056 Olkhovatova, O. L.
387 Ollagnier, M.
1229 Oller, J.
7427 Olmer, H.
5292 Olovnikova, A. M.
8016 Olsen, A. M.
3560 Olsen, O. A.
10419 Olsen, R. G.
10630 Olsen, R. G.
7799 Olson, H. C.
954 Olson, L. D.
6046 Olson, N. F.
6058 Olson, N. F.
7748 Olson, N. F.
951 Olson, N. O.
2050 Olson, W. H.
2166 Olsson, B.
2931 Olsson, B.
5606 Olszewski, Z.
6320 Oludemokun, A. A.
9932 Olufowote, J. O.
2765 Olutiola, P. O.
2766 Olutiola, P. O.
4074 Olutiola, P. O.
5930 Olutiola, P. O.
6869 Olutiola, P. O.
6467 Omae, Y.
8975 Omas, N. M.
831 Omata, S.
832 Omata, S.
5522 Omata, S.
5740 Omelchenko, V. N.
2264 Omi, A.
1426 Omoto, S.
641 Omura, S.
1385 Omura, S.
1436 Omura, S.
2243 Omura, S.
3809 Omura, S.
5128 Omura, S.
5719 Omura, S.
5890 Omura, S.
6640 Omura, S.
6940 Omura, S.
9139 Omura, S.
9466 Omura, S.
10345 Omura, S.
10376 Omura, S.
10377 Omura, S.
5128 Onda, M.
3545 Onesirosan, P. T.
8609 Onesirosan, P. T.
6331 Onim, J. F. M.
1665 Onishi, H.
10331 Ono, H.
9361 Ono, N.
2526 Onodera, K.
5997 Onodera, K.
9374 Onodera, M.
4386 Onoguri, E.
2800 Onopeghara, F. A.
115 Onuska, F. I.
70 Oohara, M.
71 Oohara, M.
8639 Ooka, J. J.
4948 Oostray, B. A.
2140 Opanasenko, E. P.
183 Oppel, K.
4941 Ordal, G. W.
3947 Ordal, Z. J.
8287 Ordal, Z. J.
9186 Ordal, Z. J.
9283 Ordal, Z. J.
211 Ordonez, J. A.
9572 Ordonez, J. A.
1304 Ordzhonikidze, Z. V.
2995 Ordzhonikidze, Z. V.
6390 Orekhov, D. A.
3472 Orellana, R. G.
1564 Oriel, J. D.
4428 Orion, D.
7637 Oritani, T.
6305 Orlikowski, L. B.
10528 Orlova, B. S.
4575 Orlova, G. I.
8971 Orlova, L. D.
619 Orlova, N. V.
1370 Orlova, N. V.
1381 Orlova, N. V.
8131 Orlova, N. V.
9091 Orlova, N. V.
9111 Orlova, N. V.
10263 Orlova, N. V.
10312 Orlova, N. V.
7340 Orlova, T. G.

Author index

- 2247 Orlov, T. I.
 4790 Orlov, T. I.
 8849 Orrod, O. J.
 5903 Ornelas-Vale, A.
 5904 Ornelas-Vale, A.
 9291 Orr, G. F.
 4717 Orsi, A.
 3178 Orskov, F.
 6790 Ortenberg, M.
 7096 Orth, D. S.
 7553 Orth, D. S.
 977 Orth, R.
 8571 Orth, R.
 5267 Ory, R. L.
 1632 Osawa, T.
 4712 Osborn, E.
 1521 Osborne, A. D.
 7299 Osborne, A. D.
 9052 Osborne, C. D.
 2860 Osborne, F. H.
 681 Osborne, L. E.
 3034 Osborne, N. F.
 3035 Osborne, N. F.
 6052 Osborne, R. J. W.
 8202 Osburn, B. I.
 4536 Oshima, N.
 4543 Oshima, N.
 5411 Oshima, N.
 4834 Osidze, D. F.
 1766 Oslage, H. J.
 8697 Osman, F. M.
 9603 Osoro, B. A.
 4354 Osoro, M. O.
 5747 Ostanina, L. N.
 24 Ostler, G.
 2590 Ostovar, K.
 6126 Ostovar, K.
 5447 Ostrofsky, W. D.
 2484 Ostrovsky, D. N.
 5739 Ostrovsky, D. N.
 8188 Ostrow, D. H.
 8715 Ostrowska, K.
 2334 Ostrowski, M.
 2335 Ostrowski, M.
 2336 Ostrowski, M.
 2337 Ostrowski, M.
 39 Ostrowski, W.
 5454 Ostry, M. E.
 7635 Otaz, Y.
 3079 Otaka, Y.
 3076 Otake, N.
 3077 Otake, N.
 5722 Otake, N.
 7435 Otake, N.
 10381 Otake, N.
 10389 Otake, N.
 7750 Otani, H.
 9481 Otani, T.
 5708 Otani, Y.
 1731 Otenhajmer, I.
 4855 Othmer, D. F.
 4862 Otis, R. J.
 9377 Otoshko, T. A.
 2914 Otsuka, S.
 8524 Ott, J.
 5333 Otta, J. D.
 6784 Ottaviani, F.
 10557 Ottaviani, F.
 3388 Otte, H. J.
 4630 Otte, H. J.
 2288 Otten, J. A.
 4700 Otten, M.
 8680 Otterbacher, A. G.
 7035 Otterby, D. E.
 6367 Otterpohl, B.
 8195 Otth, L.
 3228 Otting, W.
 8943 Otting, W.
 1561 Otto, L. A.
 4982 Otto, R.
 9023 Otto, V.
 8191 Ottolenghi, A. C.
 10084 Ottow, J. C. G.
 279 Our, S. H.
 8648 Our, S. H.
 902 Ouchi, G. I.
 3360 Ouchi, K.
 8788 Ouchi, S.
 5206 Ouderkerk, L. A.
 8045 Oudot, J.
 8005 Ouellette, G. B.
 4098 Oujesky, H.
 10139 Oujesky, H.
 3740 Oura, E.
 3741 Oura, E.
 5108 Oura, E.
 9167 Ourgouiv, K. R.
 1454 Ousby, J. C.
 10207 Outschoorn, A. S.
 8180 Ouyen, T. C.
 5159 Ovaskainen, P.
 9163 Ovchinnikov, N. M.
 4829 Ovchinnikov, Y. A.
 652 Ovchinnikov, Yu. A.
 3069 Ovchinnikov, Yu. A.
 4804 Ovchinnikov, Yu. A.
 7605 Ovchinnikov, Yu. A.
 7659 Ovchinnikov, Yu. A.
 2124 Overall, J. C. Jr.
 1992 Overman, A. J.
 64 Ovodov, Y. S.
 3263 Owajima, T.
 9951 Owen, M. G.
 1550 Oxborrow, G. S.
 8605 Oxborrow, G. S.
 7547 Oxborrow, G. S.
 3825 Oxford, J. S.
 885 Oyabu, K.
 847 Ozawa, J.
 5947 Ozawa, J.
 8950 Ozawa, K.
 4495 Ozeretskovskaya, O. L.
 6286 Ozeretskovskaya, O. L.
 2282 Ozeretskovsky, N. A.
 5524 Ozeryanskaya, N. M.
 8054 Ozolin, O. N.
 4457 Paasuke, R.
 89 Paca, J.
 4951 Paca, J.
 5882 Paca, J.
 6750 Paca, J.
 6824 Paca, J.
 9499 Paca, J.
 10083 Paca, J.
 2495 Pacaud, M.
 2891 Pace, A.
 7661 Pace, B.
 5521 Pace, G. W.
 7661 Pace, N. R.
 9623 Pace, P. J.
 9834 Pacetto, M.
 870 Pachecka, J.
 5552 Pacheco, H.
 226 Pachler, K. G. R.
 3339 Pachler, K. G. R.
 5127 Pachler, K. G. R.
 6965 Pacioni, G.
 10624 Packer, N. H.
 8838 Padaganur, G. M.
 1035 Padhi, B.
 8985 Padhya, A. C.
 1065 Padma, R.
 1958 Padma, R.
 3464 Padma, R.
 3527 Padmanabhan, C.
 1045 Padmanabhan, D.
 6245 Padmanabhan, D.
 1029 Padmanabhan, S. Y.
 1031 Padmanabhan, S. Y.
 2706 Padmanabhan, S. Y. (Contd)
 10245 Padovani, F.
 888 Padron, M. P.
 213 Padwal-Desai, S. R.
 214 Padwal-Desai, S. R.
 1151 Paetzhold, M.
 2076 Pagan, J. D.
 5494 Pagan, J. D.
 8027 Pagan, J. D.
 1417 Pagani, H.
 6027 Pager, G.
 3306 Pagel, L. V.
 7546 Pagel, J. E.
 7497 Pagel, J. E.
 1154 Pagony, H.
 2841 Pagony, H.
 9025 Paguia, A. G.
 4424 Pahlow, G.
 1818 Pahren, H. R.
 2653 Pais, S. B.
 4882 Paine, D.
 9454 Pajdad, E.
 3749 Pajdak, E.
 5909 Pajunen, E.
 1438 Pal, A.
 6268 Pal, A. K.
 7673 Pal, B. C.
 7735 Pal, R. N.
 4729 Pal, S. C.
 2757 Palacios de Garcia, M. E.
 2758 Palacios de Garcia, M. E.
 9262 Palasuntheram, C.
 2140 Palii, G. K.
 6795 Paliwal, D. K.
 7891 Paliwal, Y. C.
 1277 Pallas, J. E.
 1424 Palleroni, N. J.
 1930 Palleroni, N. J.
 3952 Palleroni, N. J.
 2291 Pallesen, L.
 2971 Pally, G. K.
 357 Palm, E. W.
 946 Palmer, I. S.
 5139 Palmer, J. K.
 1038 Palmer, L. T.
 2455 Palmer, T. N.
 9640 Palmer, W. L.
 4887 Palmieri, G.
 5316 Palomar, M. K.
 5242 Palominos, S. M.
 7906 Palti, J.
 2494 Palubinskas, V. J.
 3313 Palubinskas, V. J.
 220 Palumbo, S. A.
 242 Palyusik, M.
 2619 Palyusik, M.
 3429 Palyusik, M.
 3917 Pambor, R.
 5417 Pan, S.
 5657 Pan, T.
 5672 Pan, T.
 9696 Panalaks, T.
 8953 Panarin, E. F.
 1079 Panchabhaya, Y. P.
 5462 Panconesi, A.
 3892 Pancorbo, O.
 3398 Panda, P. C.
 5596 Pandey, H. N.
 2061 Pandey, K. K.
 8992 Pandey, K. K.
 402 Pandey, K. R.
 8977 Pandey, N. K.
 315 Pandey, P. K.
 1904 Pandey, P. K.
 6243 Pandey, P. K.
 5721 Pandey, R. C.
 6567 Pandey, R. C.
 10266 Pandey, R. C.
 10404 Pandey, R. C.
 7274 Pandher, M. S.

Author index

- 6224 Pandurangan, S.-V.
5109 Panek, A.-D.
10534 Panezai, A.-K.
9785 Panic, M.
9870 Panic, M.
9930 Panic, M.
5868 Panjevic, D.
10067 Fankhurst, C.-E.
5587 Fannier, W.-L.
2530 Panosyan, A.-G.
6585 Pant, C.-M.
7300 Fantaleon, J.
349 Fantastico, E.-B.
1000 Panwar, K.-S.
1057 Panwar, K.-S.
4443 Panwar, K.-S.
941 Paoletti, C.
4257 Papa, K.-E.
9693 Papa, K.-E.
4964 Papadakis, J.-A.
4964 Papaiconomou, N.
589 Papariello, G.-J.
3977 Papavassiliou, J.-T.
8275 Papavassiliou, J.-T.
2030 Papavizas, G.-C.
2069 Papavizas, G.-C.
8619 Papavizas, G.-C.
9757 Papavizas, G.-C.
5178 Pappun, M.
4593 Papp, L.
620 Pappagianis, D.
8168 Pappagianis, D.
7866 Pappas, A.
9872 Pappas, A.
3521 Paquin, R.
3481 Paramabaramani, C.
2692 Paramabaramani, C.
2269 Paranasenkova, V.-I.
2458 Paranjpe, S.
8419 Paranosenkova, V.-I.
4823 Paranosenkova, V.-I.
6550 Paredas, L.
8117 Paredes, L.
8117 Paredes, L.-M.
7027 Parekh, L.-J.
6857 Parekh, V.-R.
989 Pareles, S.-R.
6136 Parente, A.
1218 Parente, A.-M.
1417 Parenti, F.
6638 Parenti, F.
443 Pares, R.
444 Pares, R.
3787 Parfitt, R.-T.
178 Parihar, D.-B.
2924 Parijskaya, A.-N.
5476 Parijskaya, A.-N.
5487 Parijskaya, A.-N.
1215 Parikh, A.-R.
10592 Parisi, J.-T.
9956 Pariya, S.-N.
4834 Parizh, B.-M.
5026 Park, B.-K.
8325 Park, B.-K.
9339 Park, B.-K.
4278 Park, C.-E.
7723 Park, C.-E.
8286 Park, C.-E.
4703 Park, C.-H.
4170 Park, D.
7831 Park, D.-L.
3498 Park, P.
7324 Park, R.-W.-A.
2331 Park, U.-K.
5066 Park, Y.-K.
9362 Park, Y.-K.
4839 Parker, C.
5775 Parker, D.-S.
9942 Parker, J.-H.
191 Parker, N.-S.
1576 Parker, R.-H.
1615 Parker, W.-H.
7441 Parker, W.-L.
2966 Parkhurst, J.-R.
3873 Parkin, M.-F.
7477 Parkin, M.-F.
3740 Parkkinen, E.
5077 Parks, L.-W.
10354 Parks, L.-W.
438 Parlange, J.-Y.
1981 Parlevliet, J.-E.
1982 Parlevliet, J.-E.
8762 Parlevliet, J.-E.
8768 Parlevliet, J.-E.
9929 Parlevliet, J.-E.
6392 Parmeter, J.-R.
1122 Parmeter, J.-R.-Jr.
9335 Parniak, M.-A.
7062 Parodi, A.
9917 Parpia, H.-A.-B.
8220 Parr, J.-F.
6080 Parrett, N.-A.
4717 Parri, F.
4966 Parrott, P.-L.
9296 Parry, J.-M.
10238 Parry, M.-F.
8586 Parsons, E.-A.
6854 Parsons, T.-F.
5098 Parthasarathy, N.-M.
8784 Partiot, M.
4943 Parton, R.
5446 Partridge, A.-D.
2500 Partridge, S.-M.
2989 Parvery, F.
9034 Parvery, F.
2120 Parvu, C.
6645 Pascard, C.
4599 Paschaf, D.-C.
579 Paschal, J.-W.
5748 Paschal, J.-W.
5064 Pasechnik, A.-M.
6891 Pasechnik, A.-M.
7625 Pasechnik, A.-M.
8385 Pasechnik, A.-M.
7609 Pasek, A.
7610 Pasek, A.
2184 Pasiecznik, K.-A.
9252 Paskell, S.-L.
6327 Passam, H.-C.
6159 Passera, C.
4013 Pastoret, P.-P.
8224 Pastrijah, H.-D.
5547 Pastukhova, G.-V.
68 Pastuszak, I.
7252 Patchin, J.-W.
8361 Patching, J.-W.
8041 Patel, G.-B.
4205 Patel, I.-R.
1761 Patel, J.-D.
1215 Patel, K.-S.
202 Patel, M.-B.
493 Patel, M.-R.
2116 Patel, M.-R.
5544 Patel, M.-R.
4114 Patel, N.
6249 Patel, P.-N.
9765 Patel, P.-N.
18 Patel, R.-N.
1661 Patel, R.-N.
4309 Patel, V.-C.
6994 Pater, B.
4964 Pateraki, E.
2911 Paterl, G.-B.
7488 Paterson, R.-R.-M.
8443 Patesenker, E.-S.
7790 Pathak, N.-N.
2759 Pathak, P.-D.
7115 Pathak, P.-D.
4463 Pathak, R.-S.
10170 Pathak, V.-N.
3527 Pathmanabhan, G.
2619 Pathre, S.-V.
2620 Pathre, S.-V.
2106 Patil, A.-M.
2752 Patil, A.-O.
4492 Patil, A.-O.
2763 Patil, A.-S.
1730 Patil, B.-D.
4492 Patil, B.-P.
8611 Patil, F.-S.
1174 Patil, R.-B.
5698 Pato, M.-L.
2701 Patpong, P.
10270 Patrick, K.-E.
8744 Patrick, T.-W.
5485 Patrick, W.-H.-Jr.
6427 Patrick, Z.-A.
6428 Patrick, Z.-A.
8559 Patterson, D.-S.-P.
5060 Pattishall, K.-H.
2997 Pattyn, S.
4960 Pattyn, S.-R.
8114 Pattyn, S.-R.
6143 Patwardhan, S.-A.
236 Patyka, B.-F.
4045 Pau, W.-S.
4730 Pauckov, V.
6143 Paul, I.-C.
111 Paul, N.-B.
269 Paul, V.
4325 Paulech, C.
877 Paulick, R.-C.
7379 Paull, A.
9716 Paulsen, P.-V.
1108 Paulus, A.-O.
3562 Paulus, A.-O.
3570 Paulus, A.-O.
4491 Paulus, A.-O.
7976 Paulus, A.-O.
8836 Paulus, A.-O.
5736 Paulus, H.
7431 Paulus, H.
2923 Paumovic, D.
4628 Paunovic, D.
7936 Paunow, S.
305 Pavgi, M.-S.
1025 Pavgi, M.-S.
1073 Pavgi, M.-S.
4302 Pavgi, M.-S.
6486 Pavillard, R.
6426 Pavlenko, V.-F.
9778 Pavlik, E.
9101 Pavljak, Hu.-V.
2156 Pavlov, E.-P.
2282 Pavlova, L.-I.
8357 Pavlovskaya, J.-I.
8310 Pavlyuk, M.-I.
4093 Pawelczak, M.
3816 Pawlak, J.
7818 Pawlowski, N.-E.
9119 Pawlowski-Konopnicki, B.-E.
1121 Pawsey, R.-G.
6394 Paxton, J.-D.
2190 Paxton, L.
1886 Payak, M.-M.
3900 Payment, P.
7617 Payne, J.
4519 Payne, J.-A.
6992 Payne, J.-W.
6793 Payne, R.-W.
6979 Payne, W.-J.
8353 Pazlarova, J.
5458 Peacher, P.-H.
9753 Peaden, R.-N.
3041 Pearce, C.-J.
5681 Pearce, C.-J.
1570 Pearce, L.-E.
1041 Pearce, R.-B.
2581 Pearson, A.-M.
127 Pearson, C.-B.

Author index

1409 Pearson, I. A.
 5207 Pearson, J. K. L.
 3034 Pearson, M. J.
 3035 Pearson, M. J.
 9046 Pearson, N. J.
 4229 Pearson, R. E.
 7843 Pearson, S. M.
 1362 Pebalk, V. L.
 3033 Pebalk, V. L.
 4775 Pebalk, V. L.
 4980 Peberdy, J. F.
 6822 Peberdy, J. F.
 156 Peberdy, M. F.
 9372 Pecherer, J. C.
 782 Pechurkin, N. S.
 8931 Pechurkin, N. S.
 10164 Peck, G. E.
 1 Peck, K.
 804 Peck, K.
 7402 Peckelsen, C.
 10143 Pedersen, E.
 8477 Pederson, D. E.
 1691 Pedziwilk, F.
 733 Peel, B.
 136 Peeler, J. T.
 4625 Feeler, J. T.
 6354 Peeples, J. L.
 6099 Peers, D. G.
 6739 Peffers, A. S. R.
 1962 Pegg, G. F.
 3538 Pegg, G. F.
 6361 Pegg, G. F.
 3239 Peitersen, N.
 6877 Peitersen, N.
 3336 Pekhov, A. P.
 1770 Pekkanen, T. J.
 8112 Pekkanen, T. J.
 941 Pelagattini, O.
 5821 Peled, O. N.
 5821 Peled, U. N.
 5444 Pelham, J.
 9644 Pelhate, J.
 9097 Pelizza, G.
 4877 Pellegrini, M. G.
 8629 Pelletier, R. L.
 3716 Pelling, J. C.
 865 Pelmont, J.
 6702 Pelosi, N.
 4821 Pelyvas, I. F.
 957 Pelz, K.
 6479 Penaranda, M. E.
 8139 Penasse, L.
 9792 Pencic, V.
 9737 Pende, B.
 9551 Penelski, I.
 7022 Penfield, M. P.
 8859 Pengelly, D. L.
 2438 Penman, C. S.
 6269 Pennazio, S.
 6740 Pennell, J.
 3655 Penner, D.
 4912 Penner, J. L.
 10065 Penney, D. C.
 8504 Penney, N.
 8589 Pennycook, S. R.
 1900 Penrose, L. J.
 8798 Penrose, L. J.
 8556 Pensala, O.
 7689 Pentegova, V. A.
 862 Penzikova, G. A.
 9001 Penzikova, G. A.
 9136 Penzikova, G. A.
 4307 Pepin, H. S.
 8760 Pepin, H. S.
 241 Peplinski, A. J.
 9704 Peplinski, A. J.
 7720 Pepler, H. J.
 10321 Perazzi, A.
 237 Percebois, G.
 3677 Perceval, A.
 9525 Percheron, F.
 2518 Percival, E.
 1645 Perdihi, A.
 5165 Perego, L. Jr.
 10622 Perego, L. Jr.
 2756 Pereira, G.
 4650 Perel'man, A. E.
 659 Perepelkin, V. S.
 1448 Perepelkin, V. S.
 2282 Perevelkin, V. S.
 3836 Pereverzev, N. A.
 751 Perevezentzev, V. P.
 609 Perevozskaya, N. A.
 6981 Perez, J. A.
 7427 Perez, R.
 1412 Perez-Silva, G.
 9854 Pergola, G.
 9433 Perham, R. N.
 2583 Peric, M.
 5871 Peries, J.
 9654 Perkins, A. G.
 9655 Perkins, A. G.
 9656 Perkins, A. G.
 7948 Perkins, C.
 3900 Perkins, G. H.
 3817 Perkins, H. R.
 4827 Perkins, R. L.
 9952 Perl, M.
 868 Perlman, D.
 3351 Perlman, D.
 5024 Perlman, D.
 6005 Perlman, D.
 6593 Perlman, D.
 6818 Perlman, D.
 9480 Perlman, D.
 6790 Perol, Y.
 7163 Perombelon, M. C. M.
 3968 Perrier, J.
 2278 Perrin, P.
 8139 Perronnet, J.
 9836 Perrotta, G.
 2687 Perry, D. A.
 4619 Perry, J. J.
 5114 Perry, R. P.
 492 Pershin, G. N.
 5586 Pershin, G. N.
 8971 Pershin, G. N.
 2659 Person, C.
 5585 Person, S.
 6604 Pertsovskaya, N. V.
 10150 Perucca, E.
 7257 Perveen, B.
 7330 Pesando, D.
 909 Pesenti, G.
 7762 Pessoa, G. V. A.
 8956 Pestka, S.
 7017 Petaja, E.
 1411 Petcher, T. J.
 4799 Petcher, T. J.
 6264 Peters, D.
 6296 Peters, D.
 10638 Peters, D.
 7277 Peters, D. B.
 5523 Peters, J.
 6995 Peters, J.
 7158 Peters, K. -R.
 6182 Peters, K. E.
 1933 Petersen, L. J.
 6671 Petersen, N. J.
 4908 Peterson, A. F.
 4911 Peterson, A. F.
 135 Peterson, D. E.
 10053 Peterson, E. A.
 2045 Peterson, G. W.
 4547 Peterson, G. W.
 6385 Peterson, G. W.
 6389 Peterson, G. W.
 8001 Peterson, G. W.
 8800 Peterson, J. L.
 7214 Peterson, R. A.
 69 Peterson, R. E.
 1805 Peterson, R. E.
 4124 Peterson, R. E.
 5042 Peterson, R. E.
 9434 Peterson, R. E.
 478 Petrakis, L.
 1184 Petrakis, L.
 5984 Petres, J. J.
 3209 Petric, M.
 9294 Petrikevich, S. B.
 7575 Petrilli, F. L.
 8053 Petris, A.
 10122 Petrocheilou, V.
 9844 Petronijevic, M.
 4786 Petrova, L. Y.
 5684 Petrova, M. A.
 6962 Petrova, N. T.
 10444 Petrova, R. P.
 2436 Petrukhova, N. M.
 5553 Petrus, V. V.
 9144 Petrykina, Z. M.
 10391 Petrykina, Z. M.
 3774 Petrzilka, T.
 3775 Petrzilka, T.
 1628 Petsko, G. A.
 6324 Pett, B.
 6873 Pettersson, G.
 4254 Pettersson, H.
 1927 Pettersson, L.
 4935 Pettipher, G. L.
 8165 Petyushenko, R. M.
 4361 Petzold, H.
 4387 Petzold, H.
 78 Petzold, K.
 5743 Peypoux, F.
 5233 Pezacki, W.
 1186 Pfaender, F. K.
 2122 Pfau, C. J.
 474 Pfeiffer, J. T.
 2909 Pfeiffer, J. T.
 7020 Pfeifer, D. K.
 5383 Pfeiffer, J. S.
 1668 Pfeil, E.
 8884 Pfender, W. F.
 6458 Pfennig, N.
 6945 Pfennig, N.
 4667 Pfirrmann, R. W.
 895 Pfisterer, E.
 377 Pflieger, F. L.
 6329 Pflieger, F. L.
 1274 Pflug, I. J.
 1780 Pflug, I. J.
 9609 Pflug, I. J.
 9687 Pflug, I. J.
 9012 Pflug, L. J.
 3559 Phadtare, S. G.
 2852 Phares, R.
 1065 Phatak, H. C.
 6187 Phatak, H. C.
 6045 Phelan, J. A.
 7634 Philippon, A.
 8358 Philippon, A.
 8494 Philippos, S.
 9000 Philipson, L.
 6617 Phillips, G. D. J.
 923 Philippos, S. G.
 6794 Phillips, C.
 3651 Phillips, D. A.
 4581 Phillips, D. A.
 2333 Phillips, G.
 9020 Phillips, G. F.
 3221 Phillips, I.
 6644 Phillips, I.
 9260 Phillips, I.
 9287 Phillips, I.
 8477 Phillips, J. G.
 3168 Phillips, K. D.
 4933 Phillips, K. D.
 2196 Phillips, L.
 5735 Phillips, L.

Author index

- 7445 Phillips, L. (Contd)
1669 Phillips, L. E.
1567 Phillips, S. B.
2306 Phillips, S. E.
691 Phillips, W. E. Jr.
187 Phillips, W. K.
4166 Phillips, W. K.
2879 Philpotts, H.
8904 Philpotts, H.
1167 Phipps, P. M.
8766 Phipps, P. M.
2784 Phul, P. S.
7350 Piar, H. W.
1797 Piasecki, M.
8891 Fichonoty, F.
8877 Pichot, J. P.
2274 Pickering, L. K.
9503 Pickett, J. A.
1561 Pickett, M. J.
4947 Pickett, M. J.
4892 Pickett, M. S.
8210 Pickford, J.
9479 Pidoplichko, G. A.
3267 Piekarowicz, A.
4160 Piendl, A.
1956 Piening, L. I.
8626 Piening, L. J.
6016 Pienol, A.
6662 Pieper, R. L.
919 Pierami, R. M.
9831 Pierce, H. D.
9226 Pierce, M.
3301 Pierini, G.
3244 Pierrot, M.
3761 Piersantelli, N.
6079 Pierson, C. J.
4188 Pierson, M. D.
667 Pierzchala, W. A.
6796 Pietkiewicz, J.
8384 Pietkiewicz, J.
203 Pietraszek, A.
10301 Piffer, G.
7532 Piffeteau, A.
2066 Piggott, W. R.
7840 Piglionica, V.
7892 Piglionica, V.
7893 Piglionica, V.
9790 Piglionica, V.
9806 Piglionica, V.
6392 Piirto, D. D.
10026 Piirto, D. D.
2418 Pilat, P.
4003 Pilat, P.
4915 Pilat, P.
5856 Pilat, P.
9332 Pilat, P.
9334 Pilat, P.
6805 Fileo, J. R.
5772 Pilet, Ch.
2386 Pilfold, J. N.
7280 Pillai, C. G. P.
8224 Pillai, N. N.
6799 Pillai, P. K.
124 Piller, E. R.
10480 Pillion, E.
1704 Pilone, G. J.
5393 Pilowsky, M.
7422 Pilpel, N.
8514 Pinegar, J. A.
3763 Pines, S. H.
1170 Pinkas, Y.
2629 Pinkerton, F.
3621 Pinon, J.
9571 Pinsky, A.
4288 Pinstруп-Andersen, P.
5257 Piosik, L.
2997 Piot, P.
4960 Piot, P.
8114 Piot, P.
10569 Piotrowski, J.
4952 Pircher, F. J.
4233 Pirie, N. W.
9373 Pirieva, D. A.
10376 Piriou, F.
21 Pirlieva, D. A.
4152 Pirt, S. J.
8267 Pirt, S. J.
8937 Pirt, S. J.
8931 Pis'man, T. L.
486 Pisanov, M. A.
4749 Pisanov, M. A.
9324 Pisanov, M. A.
8758 Pisarev, B. A.
8554 Piskorska-Pliszczynska, J.
5074 Piskiewicz, D.
8345 Pitcher, W. P. Jr.
6518 Pitha, P. M.
4535 Pitkethley, R. N.
10274 Pitkin, D.
7322 Pitman, I. H.
4830 Pitner, T. P.
9890 Pitrat, M.
4309 Pitre, H. N.
3309 Pitt, D.
7165 Pitt, D.
10589 Pitt, T. L.
9272 Pittman, S.
8358 Pitton, J. -S.
3827 Pituro, I.
3829 Pituro, I.
3437 Piva, M. -T.
175 Pivnick, H.
10305 Piwowski, J.
3424 Pizzamiglio, A.
10640 Plachcinska, J.
6254 Plakolli, M.
8984 Plaksina, A. N.
5541 Plakunov, V. K.
8964 Plakunov, V. K.
9110 Plakunov, V. K.
3616 Plank, S.
4537 Plank, S.
6400 Plank, S.
4590 Planque, K.
7141 Plaskitt, K. A.
9782 Plaskitt, K. A.
258 Platero, M.
9754 Platero, M.
8984 Platonova, Z. V.
5527 Platt, D. J.
8222 Platz, S.
3540 Plaud, G.
3519 Plavsic-Banjac, B.
8272 Pleenor, M. B.
7904 Pleij, C. W. A.
5307 Plese, N.
7104 Plese, N.
5096 Plevani, P.
88 Plichon, B.
6080 Plimpton, R. F.
2262 Plotnikov, N. P.
1372 Plourde, J. R.
6882 Plourde, J. R.
6699 Plowright, D. R.
285 Plumb, R. T.
8674 Plumb, R. T.
7496 Pluntz, J. C.
6608 Pobedinsky, N. A.
8170 Pobedinsky, N. A.
6156 Pober, Z.
10390 Pochini, A.
8951 Poddar, R.
6825 Podgorsky, V. S.
2385 Poelma, P. L.
4212 Poelma, P. L.
7774 Poelma, P. L.
9534 Poelma, P. L.
10637 Pogodina, V. V.
4743 Pogwizd, S. M.
7521 Pohja, M. S.
3669 Pohl, P.
6000 Pohland, A. E.
9709 Pohland, A. E.
3105 Pohlander, F. G.
6381 Pohleven, F.
1325 Pohlod, D.
9063 Pohlod, D.
8421 Pohm, M.
9858 Pohronezny, K.
9859 Pohronezny, K.
8801 Poir, S.
4783 Poiger, H.
9769 Poinso, B.
6774 Poirier, L. A.
5402 Poisson, J.
1093 Pokackay, Z.
1094 Pokackay, Z.
4116 Pokoiska, A.
6002 Pokojaska, A.
3253 Pokornay, M.
4270 Pokrovsky, A. A.
9892 Polak, J.
1797 Polak, M.
9144 Polin, A. N.
10391 Polin, A. N.
1917 Polishchuk, V. E.
3252 Polivka, L.
3253 Polivka, L.
3254 Polivka, L.
3795 Polivka, L.
3969 Pollack, G.
4394 Pollack, F. G.
6155 Pollack, M.
3218 Pollard, H. L.
4154 Pollard, R.
1866 Polley, R. W.
1557 Pollin, P.
337 Pollock, C. J.
4427 Pollock, C. J.
1573 Pollock, H. M.
5237 Pollock, M.
1599 Polna, I.
1218 Polonia, J.
6963 Polonsky, J.
9485 Polonsky, J.
4994 Polson, A.
1386 Poltorak, V. A.
4575 Polukarova, G. A.
2155 Polunin, V. V.
5628 Polyak, M. S.
9039 Polyak, M. S.
2697 Polyakov, I. M.
7458 Polyakov, K. A.
8562 Polzhofer, K.
8572 Polzhofer, K.
7041 Pomeroy, B. S.
6982 Pometto, A. L.
8868 Pometto, A. L.
1109 Pommer, E. H.
6184 Ponnappa, K. M.
6252 Ponnappa, K. M.
9131 Ponomarenko, V. I.
10361 Ponomarenko, V. I.
10362 Ponomarenko, V. I.
5844 Ponomarev, P. I.
5533 Ponomareva, T. R.
8349 Ponomareva, V. D.
7427 Pons, M.
7816 Pons, W. A. Jr.
1930 Pontis, R. E.
3975 Poole, R. K.
10517 Poole, R. K.
7220 Poon, E. S.
1404 Pootjes, C. F.
9829 Poparic, A.
3852 Popel, H. J.
9713 Pople, M.
8090 Popli, S. P.
2845 Popoff, T.
2512 Popenina, R. P.

Author index

5407 Popov, A.	1080 Prakash, O. (Contd)	9239 Price, T. H. (Contd)
7458 Popov, A. A.	2741 Prakash, O.	10476 Price, T. H.
9294 Popov, E. I.	2742 Prakash, O.	7983 Price, T. V.
3523 Popov, F. A.	9837 Prakash, O.	9772 Price, T. V.
3878 Popov, G. M.	7143 Prakash, O. M.	7562 Prichard, F. E.
2282 Popov, V. F.	6887 Pramanik, A.	7563 Prichard, F. E.
4520 Popov, V. I.	166 Prandl, O.	9471 Pridham, J. B.
22 Popova, L. S.	219 Prandl, O.	1864 Priehradny, S.
2457 Popova, L. S.	6645 Prange, T.	1865 Priehradny, S.
7781 Popovic, M.	6922 Prangishvili, D. A.	7195 Priehradny, S.
6976 Popper, K.	6923 Prangishvili, D. A.	3074 Prieto Prieto, J.
6233 Popushoi, I. S.	1059 Prasad Rao, R. D. U. J.	1155 Prihoda, A.
9140 Forai-Koshts, A. S.	2925 Prasad, C.	3297 Prikazsak, M.
5920 Porath, J.	3774 Prasad, K. K.	1611 Prince, A. M.
8987 Pordesimo, A. N.	3775 Prasad, K. K.	6160 Pringle, R. B.
3840 Porkibocsatas, I.	8633 Prasad, M.	9945 Prinsloo, G. C.
4973 Portas, M. R.	8634 Prasad, M.	9971 Prinsloo, G. C.
10226 Porter, D. A.	8827 Prasad, M.	234 Prior, M. G.
6191 Porter, D. M.	3615 Prasad, M. M.	4827 Prior, R. B.
6144 Porter, J. K.	9910 Prasad, M. M.	2140 Prisyazhnyuk, P. V.
9376 Porter, J. S.	7698 Prasad, M. S.	986 Pritchard, C. G.
2288 Porter, W. E.	1068 Prasad, N. N.	2715 Pritchett, J. A.
8446 Portno, A. D.	1835 Prasad, N. N.	6140 Privat, G.
3069 Portnova, S. L.	2065 Prasad, N. N.	7064 Privat, G.
1978 Poryazov, I.	2881 Prasad, N. N.	3432 Priyadarshini, E.
3387 Posch, J.	7154 Prasad, N. N.	1064 Probasco, E. G.
7865 Posepova, L. P.	7275 Prasad, N. N.	6945 Probst, I.
5916 Pcsor, H.	7922 Prasad, N. N.	9290 Proctor, A.
8497 Pospichalova, J.	7923 Prasad, N. N.	10224 Prodan, S. I.
981 Postel, W.	6246 Prasad, S. S.	2156 Prokazova, N. Yu.
3713 Postic, B.	67 Prasad, S. S. S. V.	5820 Prokes, B.
4675 Postic, B.	2653 Prasad, S. S. V.	2043 Prokhnenko, T. A.
7339 Postic, B.	9026 Prasil, K.	2418 Prokopa, A.
3056 Postmaster, C.	3604 Pratt, J. E.	4003 Prokopa, A.
3029 Poszich, G.	5447 Pratt, R. G.	4915 Prokopa, A.
3417 Potter, E. L.	4808 Prauser, H.	5856 Prokopa, A.
953 Potter, L. M.	5343 Preczewski, J. L.	9247 Prokopa, A.
1768 Potter, L. M.	7055 Preda, N.	3393 Prokopek, D.
1824 Potter, N. N.	8565 Preda, N.	695 Prokopov, V. A.
5203 Potter, N. N.	4999 Preece, T. F.	5174 Prokopova, M.
7078 Potter, N. N.	8862 Preece, T. F.	10112 Prokopova, M.
5370 Potty, V. P.	1682 Prehm, P.	5122 Proksa, B.
10579 Pouchet, G. R.	6853 Preiss, J.	10611 Propst, M. A.
151 Poulin, J. M.	6854 Preiss, J.	7678 Prosek, M.
8367 Poulsen, L. L.	6066 Prekoppova, J.	1424 Prosser, B. la T.
4785 Pound, N. J.	9384 Prelog, V.	6233 Prostakova, Z. G.
1914 Poupet, A.	1881 Premalatha Dath, A.	993 Protchenko, P. Z.
5105 Pourrat, H.	3533 Premecz, G.	6286 Protzenko, M. A.
6827 Pourrat, H.	7374 Prenna, M.	3560 Proudfoot, K. G.
6372 Pourtois, A.	5471 Preobrazhenskaya, T. P.	8719 Proudfoot, K. G.
8698 Povish, W. R.	5618 Preobrazhenskaya, T. P.	257 Provvidenti, R.
4569 Powell, C.	3154 Prescott, E. H. A.	1845 Provvidenti, R.
2099 Powell, J. T.	7895 Prescott, J. M.	2775 Provvidenti, R.
4696 Powell, K. A.	9523 Preslan, J.	8705 Provvidenti, R.
6191 Powell, N. L.	4439 Presly, A. H.	2305 Prozesky, O. W.
6089 Powers, E. M.	722 Presnell, M. W.	3088 Pruchova, J.
3738 Powers, H. P.	9175 Presner, D. S.	9519 Prudhomme, R. O.
2040 Powers, H. R. Jr.	108 Press, R. E.	1424 Pruess, D. L.
3610 Powers, H. R. Jr.	568 Preston, D. A.	5690 Pruess, D. L.
3693 Powers, L. J.	10276 Preston, D. A.	5773 Prunet, P.
5805 Powitz, R. W.	8612 Preston, G.	5590 Prusoff, W. H.
2657 Pozdena, J.	5278 Preston, J. F.	5675 Prussak, T.
5684 Pozdnyakova, V. P.	8405 Preston, D.	5687 Prussak-Wieckowska, T.
4499 Pozhar, Z. A.	3756 Prevost, J. M.	5547 Pryanishnikova, L. I.
4822 Pozharitskaja, L. M.	6615 Prew, R.	8785 Pryce, R. J.
5620 Pozharitskaya, L. M.	7184 Pribela, A.	5686 Przyborowski, L.
9293 Pozmogova, I. N.	7185 Pribela, A.	10196 Psenak, M.
892 Poznanski, S.	8750 Pribela, A.	1307 Pshenichnikova, M. E.
1718 Poznanski, S.	7924 Price, D.	2999 Pshenichnikova, M. E.
8518 Poznanski, S.	7978 Price, D.	4499 Pshenichuk, P. F.
6914 Poznanzkaya, A. A.	2581 Price, J. F.	7817 Pual, R.
2257 Pozsgay, V.	9741 Price, J. F.	3409 Pubkayastha, R. P.
2711 Prabhu, A. S.	1327 Price, K. E.	5063 Puchkova, L. I.
7262 Prabhuj, S. K.	5651 Price, K. E.	4877 Pueli, P. A.
465 Praded, G. P.	373 Price, K. R.	1857 Pueppke, S. G.
3634 Prakash, D.	3567 Price, K. R.	4338 Pugacheva, G. T.
1950 Prakash, N.	7795 Price, M. S.	4986 Puglisi, P. P.
5372 Prakash, N.	3159 Price, P. C.	5029 Pugsley, A. P.
1024 Prakash, O.	5799 Price, T. H.	426 Puisais, J.
1066 Prakash, O.	5853 Price, T. H.	1178 Puisais, J.

Author index

- 2891 Pujol,B.
5236 Pukayastha,R.P.
10634 Pukitis,D.
1550 Puleo,J.R.
7547 Puleo,J.R.
1306 Pulverer,G.
2993 Pulverer,G.
3000 Pulverer,G.
3003 Pulverer,G.
4728 Pulverer,G.
4744 Punko,G.A.
9581 Puolanne,E.
9582 Puolanne,E.
9583 Puolanne,E.
3301 Pupillo,P.
3594 Pupillo,P.
7152 Purcell,A.H.
2268 Purcell,T.A.
4392 Purcifull,D.E.
1518 Pürtscher,M.
283 Purkayastha,R.P.
7871 Purkayastha,R.P.
9601 Purkayastha,R.P.
8487 Purman,J.
1003 Purohit,D.K.
48 Purohit,K.
49 Purohit,K.
3319 Purohit,K.
1327 Pursiano,T.A.
6439 Purushothaman,D.
4572 Purves,S.
175 Purvis,U.T.
9556 Purvis,U.T.
1322 Puschendorf,B.
4681 Pushkarskaya,N.L.
8871 Pushpa Agarwal,K.
9704 Putnam,G.B.
2743 Puttoo,B.L.
5465 Puttoo,B.L.
7883 Pyak,M.M.
5759 Pyke,T.R.
4465 Pyl'nov,T.A.
3876 Pyle,B.H.
3159 Pyndiah,N.
5233 Pyrcz,J.
7029 Pysalo,H.
17 Qadeer,M.A.
4216 Qadri,R.B.
2528 Qadri,S.M.H.
2730 Qamar,S.
2740 Qamar,S.
9175 Qazi,A.N.
6270 Quacquarelli,A.
7944 Quacquarelli,A.
8696 Quacquarelli,A.
9122 Quadrioglio,F.
10554 Quagliariello,D.A.
4988 Qualman,S.J.
3554 Quammer,H.A.
4795 Quanten,J.M.
953 Quarles,C.L.
914 Quaroni,E.
5317 Quchi,S.
7276 Quebedeaux,B.
105 Quecedo,C.R.
4635 Quentin,C.
5498 Quevedeaux,B.
330 Querfurth,G.
5272 Quesenberry,C.P.
2893 Quesenberry,K.H.
8803 Quillec,G.
9968 Quillec,G.
8665 Quimio,T.H.
7535 Quinby,H.L.
8717 Quinn,C.E.
1325 Quinn,E.
9063 Quinn,E.L.
1885 Quiot,J.B.
6248 Quiot,J.B.
9749 Quiot,J.B. (Contd)
9845 Quiot,J.B.
2519 Quirk,A.V.
2326 Qureshi,A.A.
2751 Ra,V.G.
2611 Raab,J.
9648 Raab,J.
2805 Raab,R.D.
1871 Raatikainen,M.
1977 Rabas,D.L.
9569 Rabie,A.M.
988 Rabie,C.J.
8574 Rabie,C.J.
751 Rabotnov,I.L.
5839 Rabotnov,I.L.
778 Raccach,M.
1130 Rack,K.
9577 Raczynski,R.
10533 Radan,M.
10000 Raddi,P.
5551 Radecki,A.
3506 Radha,K.
9817 Radman,L.
4762 Radojkovic,J.
6443 Radwan,H.
6543 Radwan,S.S.
9053 Radwan,S.S.
10472 Radziul,J.V.
117 Raef,S.F.
8612 Raemaekers,R.
1770 Raevuori,M.
8551 Raevuori,M.
2056 Ragab,A.M.
8355 Ragab,A.M.
1653 Raghavendra Rao,M.R.
949 Ragheb,H.S.
950 Ragheb,H.S.
4437 Raghuramajah,B.
338 Ragozzino,A.
9847 Ragozzino,A.
5534 Rahal,J.J.Jr.
1074 Rahalkar,S.R.
7877 Rahe,J.E.
1794 Rahma,E.H.A.
1121 Rahman,M.A.
5 Rahman,R.
10642 Rahmsdorf,H.J.
9799 Rahnama,I.
2286 Rai Chowdhuri,A.N.
4006 Rai,A.
6453 Rai,B.
8871 Rai,B.
4388 Rai,I.N.
3508 Rai,J.N.
8894 Rai,M.
6425 Rai,N.
6323 Rai,P.K.
4493 Rai,R.P.
4557 Rai,S.N.
7565 Raibaud,P.
9105 Raigorodskaya,V.Ya.
6671 Raij,L.
10042 Raimbault,M.
8437 Rainbow,C.
8090 Raj,K.
1077 Raj,S.
1835 Raj,S.A.
1022 Rajagopalan,C.K.S.
1049 Rajagopalan,C.K.S.
1086 Rajagopalan,C.K.S.
690 Rajagopalan,K.
8595 Rajak,R.C.
1081 Rajalakshmy,V.K.
1085 Rajan,K.M.
10581 Rajan,V.S.
2876 Rajaramamohan Rao,V.
8888 Rajaramamohan Rao,V.
4403 Rajpal
1928 Raju,B.C.
3500 Raju,B.C. (Contd)
10076 Rajukkannu,K.
2577 Rakshy,S.E.S.E.
7689 Raldugin,V.A.
3700 Ralph,B.J.
10089 Ralph,B.J.
406 Ralph,W.
4529 Ralston,D.B.
3600 Ram Reddy,M.A.
1038 Ram,B.
6318 Ram,B.
8711 Ram,B.
7147 Ram,R.D.
1076 Ram,S.
5596 Ram,V.J.
2866 Rama Rao,P.
5526 Ramachander,N.
1088 Ramachandra Rao,T.N.
3527 Ramachandran,K.
4835 Ramachandran,P.S.
9711 Ramadoss,C.S.
281 Ramadoss,N.
1033 Ramadoss,N.
7027 Ramakrishnan,C.V.
309 Ramakrishnan,K.
7343 Ramakrishnan,T.
1838 Ramalingam,A.
9502 Ramalingam,A.
1055 Ramapandu,S.
7923 Ramasamy,K.
299 Ramaswamy,S.
7975 Rambelli,A.
7329 Rambhav,S.
2370 Rambla,M.R.L.
6136 Rambo,G.W.
7329 Ramchandran,L.K.
1462 Ramia,S.
1849 Ramiah,M.
7770 Ramirez,C.
2156 Ramkova,N.V.
6748 Ramkrishnan,D.
6414 Ramos Cormenzana,A.
5371 Ramos,A.H.
7249 Ramos-Cormenzana,A.
8874 Ramos-Cormenzana,A.
539 Ramp,J.A.
3229 Ramsey,G.B.
9831 Rana,G.L.
2922 Rana,J.P.
7813 Randall,V.G.
10626 Randhawa,A.S.
6795 Randhawa,H.S.
1908 Randles,J.W.
135 Randolph,H.E.
5643 Rane,D.
8563 Ranfft,K.
4582 Ranga Rao,V.
8906 Ranga Rao,V.
8907 Ranga Rao,V.
7359 Ranganthan,B.
7800 Ranganthan,B.
1033 Ranganthan,K.
1062 Ranganthan,K.
2898 Rangarajan,M.
2856 Rangaswami,G.
6439 Rangaswami,G.
8283 Ranjhan,S.K.
6253 Rankin,B.
9516 Rankine,B.C.
10495 Rantasalo,I.
1040 Rao,A.S.
1909 Rao,A.S.
1937 Rao,A.S.
6193 Rao,A.S.
3648 Rao,A.V.
4330 Rao,A.V.
5356 Rao,D.P.C.
8754 Rao,D.P.C.
8485 Rao,G.P.

Author index

1664 Rao,G.R.	5353 Raychaudhuri,S.P. (Contd)	75 Reichenbach,H.
77027 Rao,G.S.	5355 Raychaudhuri,S.P.	9470 Reichenbach,H.
1174 Rao,J.V.-D.-K.K.	5372 Raychaudhuri,S.P.	1827 Reichert,C.A.
22490 Rao,L.	5379 Raychaudhuri,S.P.	1828 Reichert,C.A.
22491 Rao,L.	5464 Raychaudhuri,S.P.	1793 Reichert,J.E.
22492 Rao,L.	7153 Raychaudhuri,S.P.	6475 Reichhart,D.
7270 Rao,L.J.	7241 Raychaudhuri,S.P.	9449 Reichman,U.
33317 Rao,L.K.	8683 Raychaudhuri,S.P.	2568 Reichmuth,J.
2605 Rao,M.A.	5202 Rayman,M.K.	2935 Reid,C.
6222 Rao,M.H.S.	7723 Rayman,M.K.	10620 Reid,C.P.P.
7950 Rao,M.V.	8286 Rayman,M.K.	3176 Reid,D.E.
8651 Rao,M.V.	481 Raymond,R.L.	2622 Reid,J.
1071 Rao,N.S.-R.K.	2393 Raynal,G.	3647 Reijnders,L.
6407 Rao,N.S.S.	1320 Raynaud,J.-P.	5439 Reil,W.G.
5464 Rao,P.S.	2434 Raytsina,G.I.	7996 Reil,W.O.
8647 Rao,P.S.	5987 Raziuddin,S.	377 Reiling,T.P.
7327 Rao,R.S.	8351 Razlogova,I.O.	6353 Reiling,T.P.
2546 Rao,V.G.	3779 Re,L.	2546 Reilly,C.
8752 Rao,V.G.	3780 Re,L.	6648 Reimann,H.
9918 Rao,V.G.	4567 Read,D.J.	6650 Reimann,H.
7270 Rao,W.-V.B.S.	4568 Read,D.J.	150 Reinbold,G.W.
1030 Rao,Y.P.	10191 Read,G.W.	6832 Reinbold,G.W.
1984 Rao,Y.P.	2564 Reade,A.E.	7007 Reinbold,G.W.
2268 Raphael,R.A.	3347 Reading,C.	1383 Reineke,L.M.
6161 Rapilly,F.	8178 Reading,C.	3219 Reinen,D.
7106 Rapilly,F.	8547 Reagan,J.O.	9146 Reinhardt,G.
9745 Rapoport,E.H.	429 Reaney,D.C.	2235 Reinshagen,H.
137 Rapp,M.	6085 Reaume,J.	5755 Reinshagen,H.
667 Rappaport,R.S.	3063 Reba,R.C.	5756 Reinshagen,H.
4384 Rappelman,A.J.-Jr.	1511 Reber,H.	9007 Reinshagen,H.
5667 Rappoport,I.A.	5520 Rebrikova,N.L.	2189 Reintjens,E.
10552 Rarick,H.R.	5631 Rebrova,R.N.	1383 Reischer,E.A.
5033 Rasched,B.	5969 Rechteris,C.	6634 Reischer,E.A.
2143 Rashidbaigi,A.	1144 Reck,S.G.	4206 Reiser,B.
10306 Raskatova,T.M.	4226 Reddy,C.A.	8360 Reiser,J.
8671 Rassel,A.	6837 Reddy,C.A.	223 Reiss,J.
2057 Rast,H.G.	9204 Reddy,C.A.	994 Reiss,J.
3696 Rastogi,R.P.	9613 Reddy,C.A.	2633 Reiss,J.
5581 Rastunova,G.A.	4068 Reddy,C.C.	6139 Reiss,J.
8740 Ratcliffe,T.J.	1046 Reddy,G.S.	2574 Reiter,B.
305 Rathaiah,Y.	1934 Reddy,G.S.	8795 Reiter,W.W.
7148 Rathaiah,Y.	1023 Reddy,H.R.	3426 Remmert,K.-H.
7175 Rathaiah,Y.	5485 Reddy,K.R.	7914 Remneva,Z.I.
4294 Rathi,X.P.-S.	7270 Reddy,K.R.	3838 Remond,M.
1844 Rathi,Y.P.-S.	8679 Reddy,M.K.	387 Renard,J.-L.
3417 Rathmacher,R.P.	6194 Reddy,M.N.	9968 Renard,J.-L.
2695 Rathore,R.S.	6330 Reddy,M.V.	8803 Renard,J.L.
1838 Rati,E.	279 Reddy,O.R.	6696 Renaudin,M.
6006 Ratledge,C.	1878 Reddy,P.R.	4330 Renfro,B.L.
6007 Ratledge,C.	1008 Reddy,S.M.	5172 Renner,R.
6806 Ratledge,C.	9916 Reddy,S.M.	4903 Rennett,H.
5331 Rattan,B.K.	1046 Reddy,V.R.-K.	6973 Rennie,H.
8439 Rattel,N.N.	8006 Redfern,D.B.	10060 Rennie,R.J.
4745 Rauko,P.	3712 Redington,P.	5536 Rennie,R.P.
3417 Raun,A.P.	1364 Redlinski,A.	1802 Renom de La Baume,S.
3080 Rautenstein,Y.U.	6269 Redolfi,P.	9375 Renosto,F.
10450 Ravanel,P.	1748 Redys,J.J.	5662 Renz,K.J.
6232 Ravenscroft,A.V.	8002 Reeder,T.N.-Jr.	3172 Repaske,A.C.
10022 Ravilly,F.	6936 Rees,D.A.	3172 Repaske,R.
4510 Ravise,A.	5068 Reese,E.T.	3173 Repaske,R.
9926 Ravise,A.	9750 Reese,J.	6747 Repges,R.
4968 Rawal,B.D.	640 Reese,R.E.	5285 Reshetnikov,L.N.
10160 Rawal,B.D.	1564 Reeve,P.	5120 Reshetov,P.D.
10485 Rawal,B.D.	1297 Reeves,D.S.	6785 Restaino,L.
4305 Rawal,R.D.	4825 Reeves,D.S.	4986 Restivo,F.
5495 Rawat,A.K.	5029 Reeves,P.	7825 Resurreccion,A.A.
1927 Rawla,G.S.	1655 Reeves,H.C.	168 Reusser,U.
3485 Rawla,G.S.	3151 Regan,T.M.	1771 Reusser,U.
2002 Rawla,G.S.	5105 Regerat,F.	7046 Reusser,U.
9188 Raulings,D.E.	6827 Regerat,F.	2272 Reusser,F.
7126 Rawn,C.D.	8537 Regez,W.	5733 Reusser,F.
3506 Rauther,T.S.-S.	10576 Reggiardo,Z.	5734 Reusser,F.
2733 Ray,A.K.	7742 Regnier,J.	9154 Reusser,F.
9652 Ray,B.	4758 Regos,J.	7996 Reutel,J.A.
1586 Ray,P.E.	2159 Rehberg,R.	3081 Reuter,G.
6523 Ray,P.G.	7063 Rehm,H.J.	2553 Reutova,Z.A.
7348 Ray,P.G.	8558 Rehm,H.J.	9952 Reuvenis,R.
1028 Raychaudhuri,S.P.	10103 Rehm,H.J.	348 Revear,L.G.
1869 Raychaudhuri,S.P.	10105 Rehm,H.J.	2919 Revenko,A.A.
3466 Raychaudhuri,S.P.	10106 Rehm,H.J.	10267 Reverdy,M.E.

Author index

- 9946 Revise,A.
- 6186 Rewal,H.S.
- 4625 Reyes,A.L.
- 3575 Reyes,L.
- 6518 Reynolds,F.H.Jr.
- 8148 Reynolds,P.E.
- 3878 Reznikov,L.G.
- 5747 Reznikova,M.I.
- 6602 Rezvan,S.P.
- 5973 Rhee,S.
- 2492 Rhee,S.H.
- 7654 Rhee,S.H.
- 7536 Rheinheimer,G.
- 462 Rheins,M.S.
- 5408 Rhind,J.-M.
- 2169 Rhoades,E.R.
- 3990 Rhoden,D.L.
- 10567 Rhodes,B.B.
- 266 Riaz,M.
- 1087 Riaz,M.
- 2444 Riaz-ul Haque
- 6963 Ribaldi,M.
- 9485 Ribaldi,M.
- 3510 Ribeiro,O.K.
- 7633 Ribereau-Gayon,P.
- 8450 Ribereau-Gayon,P.
- 788 Ricard,J.L.
- 3564 Ricard,J.L.
- 6433 Ricci,P.
- 4794 Ricci,R.A.
- 5782 Ricciardi,G.
- 10216 Ricciardi,I.D.
- 4732 Ricciuti,C.P.
- 2075 Rice,E.L.
- 4894 Rice,P.C.
- 2302 Rice,R.C.
- 10065 Rice,W.A.
- 9173 Rich,L.G.
- 9751 Richard,C.
- 5402 Richard-Molard,D.
- 1135 Richards,G.
- 2475 Richards,G.N.
- 6496 Richards,R.M.E.
- 3183 Richards,W.D.
- 6283 Richardson,D.E.
- 7404 Richardson,F.S.
- 1570 Richardson,G.H.
- 7751 Richardson,G.H.
- 10258 Richardson,K.
- 3417 Richardson,L.F.
- 8333 Richardson,M.
- 6539 Richardson,N.E.
- 6261 Richardson,P.E.
- 167 Richardson,R.L.
- 996 Richardson,S.H.
- 6046 Richardson,T.
- 4117 Richter,S.H.
- 662 Richman,D.D.
- 5534 Richmond,A.S.
- 2790 Richmond,B.V.
- 555 Richmond,M.H.
- 587 Richmond,M.H.
- 10118 Richmond,M.H.
- 10122 Richmond,M.H.
- 7954 Richmond,S.
- 1567 Richter,M.W.
- 731 Richter,R.E.
- 3425 Richter,R.L.
- 7744 Richter,R.L.
- 10397 Richter,W.J.
- 8134 Rickard,E.C.
- 10089 Rickard,P.A.D.
- 85 Rickards,R.W.
- 649 Rickards,R.W.
- 6322 Ricketts,V.
- 8785 Ride,J.P.
- 458 Ridge,E.H.
- 5380 Ridings,W.H.
- 5150 Ridley,D.D.
- 7690 Ridley,D.D.
- 4202 Riel,R.R.
- 4419 Ries,S.M.
- 8669 Ries,S.M.
- 8680 Ries,S.M.
- 10167 Rieth,H.
- 3330 Rietschel,E.T.
- 2188 Riff,L.
- 447 Rigaud,J.
- 5491 Rigaud,J.
- 5312 Riggler,J.H.
- 9417 Righetti,P.G.
- 1677 Rigo,L.U.
- 3373 Riha,W.E.Jr.
- 7854 Rikmann,H.P.
- 169 Riley,P.K.
- 10552 Riley,P.S.
- 10451 Riley,R.D.
- 9229 Riley,R.L.
- 1097 Riley,W.D.
- 1309 Rimzha,M.I.
- 3001 Rimzha,M.I.
- 10042 Rinaudo,G.
- 7036 Rindsig,R.B.
- 7304 Rindsig,R.B.
- 8176 Rinehart,K.L.
- 10264 Rinehart,K.L.
- 2171 Rinehart,K.L.Jr.
- 634 Rinehart,K.L.Jr.
- 1440 Rinehart,K.L.Jr.
- 5721 Rinehart,K.L.Jr.
- 6567 Rinehart,K.L.Jr.
- 10266 Rinehart,K.L.Jr.
- 10395 Rinehart,K.L.Jr.
- 10404 Rinehart,K.L.Jr.
- 10351 Ringel,S.M.
- 7159 Rintelen,J.
- 6113 Rioni,M.
- 4241 Riordan,P.B.
- 4242 Riordan,P.B.
- 10523 Ripa,K.T.
- 7374 Ripa,S.
- 2233 Ripa,T.
- 5699 Ripa,T.
- 8185 Rippel,S.
- 1972 Rippon,L.E.
- 4441 Rippon,L.E.
- 5242 Riquelme,G.
- 4928 Risby,T.H.
- 7235 Rishbeth,J.
- 10135 Risi,N.
- 7272 Risk,W.H.
- 2179 Risse,C.
- 2748 Risser,G.
- 9890 Risser,G.
- 5545 Rist,N.
- 9825 Ristanovic,M.
- 5342 Ritchie,D.F.
- 8988 Ritter,C.
- 1513 Ritter,M.A.
- 1514 Ritter,M.A.
- 4849 Ritter,M.A.
- 4541 Ritter,W.
- 4545 Ritter,W.
- 4630 Ritzerfeld,W.
- 6652 Ritzerfeld,W.
- 4012 Ritzi,D.
- 5096 Riva,S.
- 51 Riverin,M.
- 4876 Rizet,M.
- 6449 Rizk,S.G.
- 6450 Rizk,S.G.
- 6094 Rizvanov,K.
- 5782 Rizza,G.
- 590 Rizzuto,A.B.
- 2587 Ro,S.
- 4422 Roa,M.H.
- 290 Roane,C.W.
- 2682 Roane,C.W.
- 2682 Roane,M.K.
- 5449 Robak,H.
- 40 Robakidze,T.N.
- 6303 Robb,J.
- 7068 Robber,B.
- 229 Robbers,J.E.
- 6144 Robbins,J.D.
- 2902 Robbins,J.W.
- 2830 Roberge,M.R.
- 4278 Robert,H.
- 3761 Robert,L.
- 4666 Robert-Gero,M.
- 9670 Roberts,A.W.
- 5459 Roberts,B.R.
- 5035 Roberts,C.
- 1537 Roberts,D.W.
- 4998 Roberts,E.H.
- 7971 Roberts,E.T.
- 3763 Roberts,F.E.
- 175 Roberts,G.
- 4850 Roberts,G.
- 24 Roberts,G.C.K.
- 1592 Roberts,G.D.
- 1908 Roberts,I.M.
- 4903 Roberts,J.
- 8366 Roberts,J.
- 9691 Roberts,J.C.
- 6478 Roberts,M.
- 3402 Roberts,R.L.
- 180 Roberts,T.A.
- 7299 Roberts,T.A.
- 8527 Roberts,T.A.
- 455 Roberts,T.R.
- 3456 Roberts,W.P.
- 5991 Roberts,W.P.
- 6152 Robertson,D.C.
- 7420 Robertson,L.
- 10259 Robertson,L.
- 6844 Robertson,R.G.
- 6812 Robin,J.P.
- 9157 Robins,M.J.
- 10183 Robins,R.K.
- 3368 Robinson,C.W.
- 6840 Robinson,C.W.
- 9498 Robinson,C.W.
- 9179 Robinson,K.
- 9245 Robinson,K.
- 2084 Robinson,P.J.
- 148 Robinson,R.K.
- 6350 Robinson,T.J.
- 2185 Robson,H.G.
- 5543 Robson,R.L.
- 9043 Rocha,J.
- 5900 Rock,J.S.
- 8172 Rock,W.L.
- 9742 Roda,L.G.
- 954 Rodabaugh,D.E.
- 1678 Rode,W.
- 10233 Rodeheaver,G.T.
- 218 Rodel,W.
- 10612 Rodgers,E.M.
- 879 Rodgers,G.C.
- 880 Rodgers,G.C.
- 7474 Rodgi,S.S.
- 4795 Rodig,O.R.
- 4851 Rodionova,M.S.
- 5055 Rodionova,N.A.
- 897 Rodopulo,A.K.
- 1412 Rodriguez,D.
- 2605 Rodriguez,E.O.
- 7144 Rodriguez,M.
- 3652 Rodriguez-Barrueco,C.
- 2086 Rodriguez-Kabana,R.
- 6354 Rodriguez-Kabana,R.
- 8036 Rodriguez-Kabana,R.
- 9957 Rodriguez-Kabana,R.
- 4218 Rodriguez-Navarro,A.
- 182 Rodriguez-Burgos,A.
- 5770 Roe,E.A.
- 7412 Roe,M.H.
- 8718 Roeb,L.
- 2280 Roehm,R.R.

Author index

- 3303 Roehr, M.
 9078 Roelants, P.
 3482 Roelfs, A. P.
 3489 Roelfs, A. P.
 8654 Roelfs, A. P.
 10351 Roemer, S.
 1454 Roesler, F. C.
 9703 Rofael, N.
 4913 Rogalovskaya, A. P.
 6 Rogers, C. J.
 4955 Rogers, D. T.
 8332 Rogers, H. J.
 7666 Rogers, J. E.
 10480 Rogers, M. R.
 3787 Rogers, M. S.
 10547 Rogers, T. E.
 5911 Rogolsky, M.
 2517 Rogovin, P.
 4847 Rogowska, W.
 4744 Rogozina, M. I.
 3927 Rohde, R.
 526 Rohde, W.
 317 Rohloff, H.
 10583 Rohmann, B.
 10634 Rohman, K.
 5383 Rohrbach, K. G.
 8822 Rohrbach, K. G.
 2179 Rohrbach, P.
 7951 Rohringer, R.
 10609 Rohringer, R.
 4957 Rohrscheidt, E.
 10141 Roia, F. C. Jr.
 2605 Roig, S. M.
 8663 Roistacher, C. N.
 3376 Rokoszevska, J.
 3357 Roland, J. F.
 5276 Rolfe, E. J.
 5277 Rolfe, E. J.
 3347 Rolinson, G. N.
 7366 Rollag, H. Jr.
 8418 Roller, P. P.
 2527 Rollier, P. P.
 1440 Rolls, J. P.
 7701 Rolz, C.
 5797 Romanenko, V. I.
 5800 Romanenko, V. I.
 19 Romanov, S. L.
 1705 Romanovets, Ye. S.
 1540 Romanovskaja, V. A.
 1162 Romeiko, I. N.
 2385 Romero, A.
 4212 Romero, A.
 7774 Romero, A.
 9534 Romero, A.
 7860 Romig, W. R.
 4011 Romine, C. L.
 3427 Romvary-Szailer, E.
 2397 Ronald, W. P.
 4269 Ronaldson, J. W.
 8688 Roncadori, R. W.
 10038 Roncadori, R. W.
 1412 Ronda, E.
 2168 Ronda-Lain, C.
 9161 Rondelet, J.
 2596 Rood, J. F.
 8299 Roome, A. P. C. H.
 7142 Roosen, A.
 7282 Roosen, A.
 5511 Rosanov, E. P.
 8901 Rosas, J. C.
 77 Rosazza, J. P.
 6954 Rosazza, J. P.
 7921 Rosciglione, B.
 3216 Rose, A. H.
 5173 Rose, A. H.
 7179 Rose, E.
 5633 Rose, G. R.
 800 Rose, N. R.
 9488 Rose, R. I.
 9571 Rosen, B.
 9666 Rosen, B. (Contd)
 2609 Rosen, C. G.
 989 Rosen, J. D.
 4908 Rosenberg, A.
 4146 Rosenberg, D.
 7656 Rosenberg, G.
 4128 Rosenberg, H.
 6375 Rosenberger, D. A.
 7303 Rosenblatt, J. E.
 5847 Rosendal, S.
 8110 Rosenfeld, G. S.
 8366 Rosenfeld, H. J.
 5048 Rosenfeld, M. G.
 7881 Rosenkranz, E. E.
 6776 Rosenkranz, H. S.
 3011 Rosenthal, A. L.
 4788 Rosenthal, K. S.
 7415 Rosenthal, K. S.
 6548 Rosenthal, S. L.
 6597 Rosi, D.
 9093 Rosi, D.
 9094 Rosi, D.
 2189 Rosin, H.
 10081 Roslucky, E. B.
 5687 Roslik-Kaminska, D.
 7279 Roslycky, E. B.
 768 Rosner, R.
 10594 Rosner, R.
 1572 Ross, D.
 10252 Ross, G. W.
 1988 Ross, H.
 8213 Ross, R. G.
 8660 Ross, R. G.
 8910 Ross, W. D.
 585 Ross-Petersen, K. J.
 2638 Rosser, W. R.
 2179 Rosset, R.
 5250 Rosset, R.
 3314 Rossi, J. J.
 3787 Rossiter, M.
 477 Rossmore, H. W.
 8169 Rossomando, E. F.
 5484 Rosswall, T.
 2530 Rosynov, B. V.
 4148 Rosynov, B. V.
 1926 Rotem, J.
 7943 Rotem, J.
 9952 Rotem, J.
 4883 Roth, I. L.
 3100 Roth, J. A.
 6677 Roth, J. A.
 2613 Roth, L. A.
 8042 Roth, L. A.
 10446 Roth, L. A.
 3606 Roth, L. F.
 5447 Roth, L. F.
 5451 Roth, L. F.
 3080 Roth, M.
 739 Roth, U.
 3482 Rothman, P. G.
 8197 Rothschild, K. J.
 8198 Rothschild, K. J.
 144 Rothwell, J.
 5158 Rotmistrov, M. N.
 5005 Rott, R.
 650 Rotter, M.
 6735 Rotter, M.
 6996 Rottger, B.
 741 Rough, D. K.
 446 Roughley, R. J.
 2885 Roughley, R. J.
 4586 Roughley, R. J.
 185 Rouhbachhach, A.
 6493 Roushdi, I. M.
 1810 Rousseau, N.
 4199 Roux, C.
 6419 Rouxel, F.
 3011 Rovell, J. M.
 369 Rovira, A. D.
 3625 Rovira, A. D.
 5470 Rovira, A. D. (Contd)
 9807 Rovira, A. D.
 6386 Rowan, S. J.
 7119 Rowchow, W. F.
 1639 Rowe, J.
 868 Rowe, J. W.
 6406 Rowe, R.
 9416 Rowley, B. I.
 212 Rowley, D. B.
 4359 Rowling, R. D. W.
 6209 Rowling, R. H. D.
 1010 Roy, A. K.
 1837 Roy, A. K.
 3615 Roy, A. K.
 3640 Roy, A. K.
 7888 Roy, A. K.
 3268 Roy, D. K.
 5673 Roy, I.
 8135 Roy, I.
 10232 Roy, I.
 5636 Roy, T. A.
 4665 Royer, R.
 4298 Royle, D. J.
 4419 Roys, D. J.
 8669 Roys, D. J.
 9750 Rozarth, R. F.
 530 Rozenblit, A. B.
 488 Rozgonyi, F.
 5532 Rozhkov, K. K.
 10246 Rozhnova, S. Sh.
 4834 Rozina, E. E.
 9002 Rua, G.
 6331 Rubathayo, P. R.
 2553 Ruban, G. I.
 5850 Ruban, V. I.
 8086 Rubess, F.
 4425 Rubies-Autonell, C.
 667 Rubin, B. A.
 5291 Rubin, B. A.
 8984 Rubinshtein, L. A.
 7380 Rubinstein, E.
 4994 Rubinstein, R.
 1371 Rubtsova, L. K.
 8965 Ruby, C. L.
 8866 Rucinsky, T. E.
 2929 Ruckdeschel, G.
 8263 Rudakov, O. L.
 501 Rudakov, V. F.
 3249 Rudek, W.
 9447 Ruden, U.
 10527 Rudis, M.
 5341 Rudnev, R. D.
 3449 Rudolph, K.
 7179 Rudolph, K.
 1347 Rudzit, E. A.
 9841 Rue, J. W.
 1411 Ruegger, A.
 6774 Ruelius, H. W.
 8983 Rufer, C.
 1440 Ruff, B. A.
 6946 Rugge, E. J.
 2234 Ruhen, R. W.
 3078 Ruis Sanchez, A.
 4071 Ruis, H.
 4171 Ruisinger, S.
 6414 Ruiz Berraquero, F.
 4175 Ruiz Cruz, J.
 8874 Ruiz-Berraquero, F.
 4121 Ruiz-Herrera, J.
 7684 Rukhadze, E. Z.
 2669 Rumbaugh, M. D.
 9869 Rumbos, I.
 10633 Rumel, N. B.
 5055 Rummyantseva, N. G.
 7566 Runanenko, E. B.
 1607 Rundell, B. B.
 8086 Runtz, C.
 9766 Ruokolainen, A. L.
 2684 Ruosch, W.
 7362 Rupp, C. A.

Author index

- 1990 Ruppel, E. G.
 9894 Ruppel, E. G.
 414 Ruppini, P.
 5119 Rusanova, V. N.
 8513 Rusanova, T. V.
 2592 Ruschke, R.
 4342 Rush, M. C.
 8644 Rush, M. C.
 6015 Rushton, A.
 1362 Rusin, V. N.
 3033 Rusin, V. N.
 4775 Rusin, V. N.
 589 Rusling, J. F.
 2642 Russell, R. R. B.
 8035 Russell, S.
 1332 Russell, A. D.
 2806 Russell, C. C.
 4 Russell, D. W.
 4326 Russell, G. E.
 7896 Russell, G. E.
 6968 Russell, I.
 9764 Russell, M. L.
 3315 Russell, P.
 9755 Russell, P. E.
 10073 Russell, P. E.
 4831 Russell, P. K.
 6012 Russell, R. M.
 3446 Russell, R. W.
 453 Russell, S. A.
 6078 Russell, T. S.
 6967 Russell, T. W. F.
 2603 Russell, W. C.
 7788 Russo, C.
 7921 Russo, M.
 2785 Russo, S.
 1767 Russo, V.
 1 Rut, M.
 804 Rut, M.
 805 Rut, M.
 5905 Rut, M.
 10559 Rutherford, I.
 10529 Rutter, D. A.
 1781 Ruttloff, H.
 2890 Rylkendall, L. D.
 5586 Ryabova, C. Y.
 652 Ryabova, I. D.
 4804 Ryabova, I. D.
 2193 Ryabova, N. M.
 8138 Ryabova, N. M.
 5136 Ryan, A.
 7378 Ryan, D. M.
 7974 Ryan, E. W.
 7991 Ryan, E. W.
 550 Ryan, K. J.
 5838 Ryan, K. J.
 10490 Ryan, K. J.
 5670 Ryan, R.
 2996 Ryan, R. W.
 1244 Rybakov, N. I.
 10444 Rybchinskaya, I. Ya.
 4927 Ryc, M.
 3978 Rycheck, R. R.
 9158 Rychlik, I.
 9322 Rychter, M.
 855 Rydstrom, J.
 4530 Rykowski, K.
 8942 Rylkin, S. S.
 9373 Rylkin, S. S.
 10528 Rylkin, S. S.
 2455 Ryman, B. E.
 3830 Rymkiewicz, D.
 8863 Rypacek, V.
 7458 Rystova, E. A.
 10407 Rytko, J.
 9050 Ryu, D. D. Y.
 6894 Ryu, D. Y.
 7692 Ryu, D. Y.
 4744 Ryzhko, I. V.
 1709 Rzechowska, E.
 1710 Rzechowska, E.
 3861 Rzechowska, E. (Contd)
 8442 Rzedowski, W.
 3063 Rzeszotrski, W. K.
 5524 Rzhanova, V. I.
 8949 Saad, A. F.
 9823 Saad, A. T.
 9875 Saad, A. T.
 5674 Sabbath, L. D.
 6557 Sabbath, L. D.
 6565 Sabbath, L. D.
 7305 Sabbath, L. D.
 8111 Sabbath, L. D.
 6230 Saber, M. S. M.
 7355 Sabiston, C. B. Jr.
 493 Sabnis, S. S.
 3792 Sabo, B.
 8119 Sabolev, R. V.
 5725 Saburova, T. P.
 8689 Sachdev, M. G.
 52 Sack, J.
 9734 Sack, R. B.
 8127 Sacks, T.
 6734 Sacristan, M. D.
 5785 Sadek, S. E.
 2915 Sadkov, A. P.
 1507 Sadler, C.
 7090 Sadoff, J. C.
 3087 Sadovoy, N. V.
 6668 Sadovoy, N. V.
 1214 Sadowska, M.
 3074 Saenz Gonzalez, M. C.
 4522 Saettler, A. W.
 7312 Safe, L. M.
 7312 Safe, S. H.
 3845 Safhay, M.
 4550 Safo-Sampah, S.
 6403 Safonova, E. P.
 5490 Sagardoy, M. A.
 9782 Saglio, P.
 10023 Sagoo, G. S.
 2938 Saha, P. K.
 5549 Saha, P. K.
 8865 Saha, S. B.
 2286 Saha, S. M.
 1077 Sahai, D.
 10309 Sahai, S. J.
 2674 Saharan, G. S.
 4311 Saharan, G. S.
 499 Saharia, G. S.
 1222 Saharia, G. S.
 5554 Saharia, G. S.
 5558 Saharia, G. S.
 5559 Saharia, G. S.
 932 Saheki, K.
 8894 Sahi, B. P.
 849 Sahm, H.
 8322 Sahm, H.
 2843 Saho, H.
 10056 Sahrawat, K. L.
 951 Sahu, S. P.
 7888 Saikia, U. N.
 1072 Sainger, D. K.
 3070 Saito, H.
 3180 Saito, H.
 3333 Saito, H.
 5966 Saito, H.
 6921 Saito, H.
 7453 Saito, K.
 9394 Saito, K.
 5654 Saito, M.
 1318 Saito, T.
 4143 Saito, T.
 8145 Saito, T.
 10350 Saito, T.
 5330 Saito, Y.
 7435 Saito, Y.
 8840 Sajise, P. E.
 4806 Sakagami, Y.
 7081 Sakaguchi, G.
 7850 Sakaguchi, G. (Contd)
 9279 Sakaguchi, G.
 9727 Sakaguchi, G.
 1180 Sakaguchi, H.
 8417 Sakaguchi, K.
 8567 Sakaguchi, O.
 1415 Sakai, H.
 1434 Sakai, H.
 5026 Sakai, H.
 8325 Sakai, H.
 9339 Sakai, H.
 7622 Sakai, K.
 1503 Sakai, M.
 7962 Sakai, M.
 8399 Sakai, S.
 831 Sakai, T.
 832 Sakai, T.
 5522 Sakai, T.
 2197 Sakamoto, H.
 4820 Sakamoto, H.
 5661 Sakamoto, H.
 9481 Sakano, K. I.
 636 Sakata, K.
 6636 Sakata, K.
 10367 Sakata, K.
 1388 Sakazaki, R.
 2251 Sakazaki, R.
 2261 Sakazaki, R.
 9132 Sakazaki, R.
 5839 Sakharova, Z. V.
 9268 Sakharova, Z. V.
 5586 Sakhashchik, Z. M.
 248 Saksen, K. N.
 1967 Saksena, S. B.
 5356 Saksena, S. B.
 6170 Saksena, S. B.
 8971 Sakulina, T. A.
 6935 Sakuma, F.
 6636 Sakurai, A.
 9338 Sakurai, A.
 7222 Sakurai, H.
 8966 Sakurai, H.
 9605 Sakurai, Y.
 5951 Salah Foda, M.
 1304 Salakaya, R. G.
 2995 Salakaya, R. G.
 1512 Salam, M. S. A.
 4938 Salanitro, J. P.
 3864 Salata, O. V.
 8895 Salati, E.
 9773 Salazar, J.
 9933 Salazar, J.
 955 Saleh, E. S.
 9202 Saleh, F. A.
 2828 Saleh-Rastin, N.
 3786 Saleh, H. N.
 10382 Saleh, M. H.
 6443 Saleh, S. H.
 9833 Salerno, M.
 9975 Salerno, M.
 9410 Salfir, V.
 4995 Saliwanchik, R.
 10643 Saliwanchik, R.
 59 Sallem, L.
 2282 Salmin, L. V.
 4863 Salmon, J. R.
 10393 Salmon, S.
 3806 Salnikow, J.
 5246 Salo, M. L.
 5247 Salo, M. L.
 8342 Salo, M. L.
 6693 Salomonsson, G.
 7238 Salt, G. A.
 3086 Saltykov, R. A.
 7932 Saltykova, L. P.
 616 Saluja, S. S.
 987 Salunkhe, D. K.
 3436 Salunkhe, D. K.
 8075 Salvador, R. L.
 5821 Salvadori, A.

Author index

9008 Salvaterra, M.
 3094 Salvi, A.
 4640 Salyers, A. A.
 4920 Salzman, G. C.
 10356 Same, C. T.
 8647 Same, S.
 7823 Samaddar, K. R.
 2624 Samarajeewa, U.
 8865 Samaspati, N.
 5709 Sambamurthy, K.
 1893 Samborski, D. J.
 4357 Samborski, D. J.
 7951 Samborski, D. J.
 10609 Samborski, D. J.
 3355 Sambuichi, M.
 9353 Samejima, H.
 9412 Samejima, H.
 6989 Samejima, T.
 8579 Samek, Z.
 2700 Samersova, V. A.
 6789 Samet, A.
 10528 Samoilenko, V. A.
 9100 Samoilova, L. N.
 4390 Samonina, J. N.
 9527 Sampson, K. T.
 7164 Sampson, P. J.
 7256 Samramurthy, K.
 8398 Samsonov, G. V.
 3790 Samsonov, G. V.
 2888 Samtsevich, S. A.
 4560 Samtsevich, S. A.
 3571 Samuels, G. J.
 6542 Sanchez, O.
 9826 Sanchez-Capuchino, J. A.
 6734 Sancho, L. G.
 7833 Sancholle, M.
 4225 Sand, F. E. M. J.
 5239 Sand, F. E. M. J.
 6093 Sand, F. E. M. J.
 9043 Sander, M. A.
 10271 Sander, M. A.
 1207 Sanders, C. C.
 6651 Sanders, C. C.
 10253 Sanders, C. C.
 10405 Sanders, C. C.
 4517 Sanders, P. L.
 8796 Sanders, P. L.
 6651 Sanders, W. E.
 10131 Sanders, W. E. Jr.
 10405 Sanders, W. E. Jr.
 5834 Sanderson, P. J.
 8783 Sanders, D. C.
 7360 Sandford, P.
 5985 Sandford, P. A.
 603 Sandham, H. J.
 6500 Sandhya, B.
 5807 Sandie, M. A.
 1733 Sandine, W. E.
 2096 Sandine, W. E.
 4198 Sandine, W. E.
 9624 Sandine, W. E.
 4002 Sandor, P. L.
 8454 Sandrak, N. A.
 1809 Sands, D. C.
 3457 Sands, D. C.
 5205 Sands, D. C.
 8828 Sands, D. C.
 9990 Sands, D. C.
 6926 Sanemori, H.
 9002 Sanfilippo, A.
 3068 Sanfilippo, G.
 5379 Sang, A.
 2695 Sanger, S. R. S.
 6164 Sanger, H. L.
 8480 Sanghirum, C.
 5430 Sankaram, A. V. B.
 178 Sankaran, R.
 4223 Sankaran, R.
 5592 Sankaran, R.
 2635 Sankawa, U.
 6702 Sanna, M.
 7753 Sannabhadhi, S. S.
 4570 Sanni, S. O.
 4571 Sanni, S. O.
 4198 Sano, H.
 6594 Sano, H.
 6506 Sano, K.
 5495 Sanroia, C. L.
 2338 Sansebastiano, G.
 3133 Sansebastiano, G.
 4878 Sansebastiano, G.
 4879 Sansebastiano, G.
 2183 Santanam, P.
 6491 Santanam, P.
 5112 Santaolalla, M.
 2608 Santha, I. M.
 9227 Santiago Fierro, G. A.
 2273 Santos, L.
 9025 Santos, P. S.
 10272 Santoro, J.
 9043 Santos, L. C.
 4962 Santos-Ferreira, M. O.
 2564 Santos-Nunez, J.
 976 Santra, S.
 2042 Santra, S.
 2849 Santra, S.
 2731 Sanwo, J. O.
 5702 Sanyal, S. C.
 2938 Sanyamat, B.
 2078 Saono, S.
 2164 Sapozhnikov, Yu. M.
 7293 Sarai, Y.
 7294 Sarai, Y.
 8050 Sarai, Y.
 8944 Sarai, Y.
 8359 Sarasti, M.
 8679 Saraswathy, N.
 2743 Sarat, R. L.
 2444 Sarauskas, T.
 1016 Sarbhoy, A. K.
 1168 Sarbhoy, A. K.
 2867 Sarbhoy, A. K.
 6301 Sarbhoy, A. K.
 9802 Sarbhoy, A. K.
 5222 Sardinias, J. L.
 1732 Sargant, A. G.
 3746 Sargsyan, G. N.
 1089 Sarkar, K. P.
 7431 Sarkar, N.
 1050 Sarma, Y. R.
 4436 Sarma, Y. R.
 1917 Sarnatskaja, V. V.
 2713 Sarode, M. S.
 4670 Sarosi, G. A.
 7416 Sarosi, G. A.
 8990 Sarosi, G. A.
 2258 Sarre, O. Z.
 6646 Sarre, O. Z.
 9223 Sarrette, B. A.
 2228 Sartori, G.
 990 Sarudi, I. Jr.
 9712 Sasada, Y.
 1814 Sasajima, M.
 7628 Sasakawa, T.
 634 Sasaki, K.
 2526 Sasaki, K.
 4771 Sasaki, K.
 5997 Sasaki, K.
 9413 Sasaki, K.
 28 Sasaki, M.
 29 Sasaki, M.
 4065 Sasaki, M.
 7683 Sasaki, M.
 858 Sasaki, R.
 9690 Sasamura, Y.
 1147 Sasek, V.
 9026 Sasek, V.
 3321 Sasiak, A.
 4827 Saslaw, S.
 81 Sassa, T.
 3182 Sassmannova, E.
 10300 Sasson, S.
 3528 Sastry, K. S.
 8692 Sastry, K. S.
 3528 Sastry, K. S. M.
 4400 Sastry, K. S. M.
 6299 Sastry, M. N. L.
 5174 Satava, J.
 7694 Satava, J.
 3828 Satavri, D.
 1074 Sathe, A. V.
 807 Sato, A.
 3665 Sato, A.
 7675 Sato, A.
 9448 Sato, A.
 8150 Sato, H.
 4099 Sato, K.
 5588 Sato, K.
 5589 Sato, K.
 6001 Sato, K.
 5156 Sato, M.
 5942 Sato, M.
 7626 Sato, M.
 3439 Sato, N.
 10574 Sato, N.
 7259 Sato, O.
 3311 Sato, S.
 4051 Sato, S.
 5710 Sato, S.
 6907 Sato, S.
 7435 Sato, S.
 7520 Sato, S.
 7665 Sato, S.
 9149 Sato, S.
 9150 Sato, S.
 9151 Sato, S.
 9152 Sato, S.
 2089 Sator, T.
 2615 Sator, T.
 3231 Sator, T.
 7807 Sator, T.
 9077 Sator, T.
 9149 Sator, T.
 9150 Sator, T.
 9364 Sator, T.
 10401 Sator, T.
 3070 Sator, V.
 7003 Sator, Y.
 3922 Satoh, H.
 2477 Satoh, K.
 2477 Satoh, T.
 2478 Satoh, T.
 3286 Satoh, T.
 7653 Satoh, T.
 8374 Satoh, T.
 10348 Satoi, S.
 10349 Satoi, S.
 1462 Sattar, S. A.
 2300 Sattar, S. A.
 3109 Sattar, S. A.
 7486 Sattar, S. A.
 9707 Satterlee, L. D.
 7698 Satyanarayana Rao, B. A.
 1176 Sauber, K.
 1177 Sauber, K.
 7656 Sauber, K.
 1406 Saucier, R.
 7794 Sauer, F.
 1673 Sauer, F. D.
 6897 Saunders, D. A.
 5776 Saunders, F. M.
 1551 Saunders, G. C.
 5531 Saunders, J. R.
 10118 Saunders, J. R.
 6503 Saunders, P. P.
 4238 Saur, R.
 6205 Saur, R.
 8116 Sautter, R. L.
 8297 Sauve, R. J.
 4123 Savage, J.

Author index

- 6757 Savageau, M.-A.
5174 Savel, J.
10112 Savel, J.
10364 Savers, J.
2736 Savile, D.B.O.
6171 Savile, D.B.O.
4913 Savinich, F.K.
7389 Savino, D.
6270 Savino, V.
8696 Savino, V.
609 Savitskaya, E.M.
2193 Savitskaya, E.M.
4100 Savitskaya, E.M.
4101 Savitskaya, E.M.
4756 Savitskaya, E.M.
5964 Savitskaya, E.M.
8379 Savitskaya, E.M.
8380 Savitskaya, E.M.
8381 Savitskaya, E.M.
3025 Savoia, D.
3030 Savoia, D.
7245 Savory, J.G.
4558 Savostin, P.
6772 Savranskaya, S.Ya.
14 Sawa, T.
6483 Sawa, T.
10357 Sawa, T.
1812 Sawada, Y.
3784 Sawada, Y.
4820 Sawada, Y.
5764 Sawada, Y.
10040 Sawada, Y.
10403 Sawada, Y.
36 Sawai, T.
2470 Sawai, T.
2538 Sawai, Y.
8373 Sawaya, Y.
7645 Sawyer, M.H.
8202 Sawyer, M.H.
2012 Saxena, R.K.
6356 Saxena, S.C.
2063 Saxena, S.K.
3671 Saxens, S.P.
3878 Sayama, R.M.
3211 Sayed, I.A.
9627 Sayers, J.R.
7505 Sayler, G.S.
1210 Sazykin, Yu.O.
1382 Sazykin, Yu.O.
3054 Sazykin, Yu.O.
8351 Sazykin, Yu.O.
9428 Scala, A.
5690 Scannell, J.P.
7151 Scarborough, B.A.
10434 Scarlett, C.M.
7176 Schaad, N.W.
8538 Schaal, E.
3003 Schaal, K.P.
3157 Schaarschmidt, B.
8553 Schade, J.E.
1529 Schade, W.
1700 Schade, W.
4292 Schadegg, E.
5687 Schaeffer, A.
5534 Schaeffler, S.
8396 Schaege, W.
2488 Schaffel, S.D.
2644 Schaffer, D.E.
2231 Schaffner, C.P.
4780 Schaffner, C.P.
6598 Schaffner, C.P.
10325 Schaffner, C.P.
3128 Schaletzki, P.
6886 Schalhorn, A.
2667 Schalk, J.M.
4042 Schaller, K.
3846 Schank, J.F.
2893 Schank, S.C.
2974 Schar, G.
3488 Scharen, A.L.
8656 Scharen, A.L. (Contd)
9813 Scharen, A.L.
8861 Scharpf, R.F.
7381 Schassan, H.-H.
7382 Schassan, H.-H.
7384 Schassan, H.-H.
6710 Schaub, S.A.
5915 Schauer, R.
2188 Schauf, V.
9414 Schchelokova, S.S.
10504 Scheer, E.R.
2273 Scheer, M.
7387 Scheer, M.
10566 Scheffel, U.
10511 Scheibner, E.
1822 Scheibner, G.
9672 Scheibner, G.
6728 Scheierman, N.
7419 Scheife, R.T.
2103 Scheifele, D.W.
5244 Scheiner, J.M.
10271 Scheld, W.M.
8888 Schell, M.A.
4183 Schellart, J.A.
4818 Schellart, J.A.
6911 Schellenberger, W.
6084 Schellhaas, G.
8703 Schenck, N.C.
4758 Schenk, C.
6110 Schenoni, P.
5581 Scherbakova, E.G.
97 Schermers, F.H.
5683 Scherr, G.H.
5016 Scherrer, R.
2541 Schesser, J.H.
7080 Schesser, J.H.
10063 Schetter, C.
6452 Scheuer, A.
1907 Schick, F.J.
9914 Schick, F.J.
3586 Schicke, P.
1723 Schiemann, D.A.
1737 Schiemann, D.A.
10269 Schierl, E.A.
1969 Schiffmann-Nadel, M.
9909 Schiffmann-Nadel, M.
183 Schiffner, E.
3825 Schild, G.C.
4069 Schilf, W.
9162 Schiller, B.
8615 Schiller, C.T.
4112 Schiller, J.G.
8375 Schiller, J.G.
7368 Schiller, K.
10474 Schillinger, J.E.
6925 Schiltz, E.
6556 Schimpff, S.C.
7057 Schindler, A.F.
10364 Schindler, D.
2362 Schindler, H.
7229 Schinner, F.
410 Schinzer, U.
1604 Schipper, I.A.
4707 Schipper, M.A.A.
3009 Schirmer, K.P.
4783 Schlatter, C.
6949 Schlee, D.
3284 Schlegel, H.G.
3318 Schlegel, H.G.
5115 Schlegel, H.G.
5116 Schlegel, H.G.
7531 Schlegel, H.G.
4828 Schlesinger, S.
3214 Schlessinger, D.
9305 Schlessinger, D.
7098 Schlievert, P.W.
818 Schling, M.
277 Schlosser, E.
4386 Schlosser, E.
8681 Schlosser, E.
8410 Schwandke, H.
2953 Schwann, P.
5576 Schwauder, H.-P.
6291 Schmelzer, K.
8590 Schmelzer, K.
8676 Schmelzer, K.
3774 Schmid, G.
3775 Schmid, G.
1651 Schmid, K.
8312 Schmid, S.
7138 Schmidle, A.
5045 Schmidt, A.L.
7673 Schmidt, D.G.
5486 Schmidt, E.L.
10029 Schmidt, E.L.
10060 Schmidt, E.L.
660 Schmidt, G.
3868 Schmidt, G.P.
3869 Schmidt, G.P.
4611 Schmidt, K.
790 Schmidt, N.J.
793 Schmidt, N.J.
4551 Schmidt, O.
7234 Schmidt, O.
5221 Schmidt, R.H.
9564 Schmidt, R.H.
2558 Schmidt-Hebbel, H.
3843 Schmidt-Holthausen, H.J.
6648 Schmidt-Kastner, G.
1651 Schmitt, R.
2055 Schmittthener, A.F.
7960 Schmittthener, A.F.
9925 Schmittthener, A.F.
1408 Schmitz, H.
10288 Schmitz, H.J.
331 Schmutterer, H.
5388 Schmutterer, H.
7173 Schmutterer, H.
6925 Schnackerz, K.D.
5883 Schnarr, G.W.
8403 Schnarr, G.W.
799 Schnebli, H.P.
7023 Schneeweiss, R.
8731 Schneider, C.L.
5858 Schneider, E.F.
8941 Schneider, H.
3284 Schneider, K.
2634 Schneider, L.W.
10131 Schneider, N.J.
7180 Schneider, R.W.
8886 Schneider, R.W.
8887 Schneider, R.W.
9900 Schneider, R.W.
3303 Schneider, W.J.
10191 Schnell, J.V.
4945 Schoch, P.E.
7731 Schoech, P.R.
9927 Schoen, J.F.
4013 Schoenaers, F.
2953 Schoenborn, C.
7818 Schoenhacht, G.L.
4720 Schoenknecht, F.D.
10144 Schoeny, R.S.
4827 Scholand, J.F.
6667 Scholl, W.
2634 Scholler, J.
6884 Scholler, M.
9452 Scholz, A.
1141 Scholz, F.
269 Schonbeck, F.
4238 Schonbeck, F.
8690 Schonbeck, F.
1786 Schonborn, W.
5254 Schonborn, W.
7049 Schonborn, W.
2929 Schonenberger, H.
833 Schoner, R.
1458 Schoratz, H.
1133 Schott, P.
2107 Schotzko, N.K.

Author index

- 3323 Schousboe, I.
5671 Schoutens, E.
3711 Schowobel, W.
1822 Schramm, E.
5854 Schrank, G. D.
4362 Schreader, W. R.
1580 Schreck, C. A.
5325 Schreiber, A. J.
3620 Schreiber, L. R.
5459 Schreiber, L. R.
4136 Schrier, P.
3315 Schrock, H. L.
10293 Schrock, W.
6956 Schroeder, H. W.
7835 Schroeder, H. W.
8455 Schroppel, E.
401 Schroth, M. N.
5437 Schroth, M. N.
5439 Schroth, M. N.
2108 Schrotter, E.
7219 Schruth, M. N.
5579 Schryer, P. J.
9389 Schubert, K.
5270 Schuller, P. L.
1680 Schulman, M.
7810 Schulten, H. -R.
7899 Schuster, K.
9701 Schultz, D. L.
6995 Schultz, L. H.
6296 Schultz, M. G.
1766 Schulz, E.
6887 Schulz, H.
4501 Schumann, G.
6736 Schumann, K. -O.
6276 Schuster, G.
7936 Schuster, G.
849 Schutter, H.
2235 Schutze, E.
3874 Schuval, H. J.
6705 Schwab, H.
7321 Schwab, T. J.
8605 Schwartz, H. F.
1385 Schwartz, J. L.
4872 Schwartz, K.
7667 Schwartz, M.
9482 Schwartz, R. D.
7503 Schwartzbrod, L.
10483 Schwartzbrod, L.
7371 Schwartzman, J. D.
8983 Schwarz, K.
3868 Schwarz, S.
1980 Schwarzbach, E.
8594 Schwarzbach, E.
5005 Schweiger, H. G.
3107 Schweisiurth, R.
237 Schwertz, A.
5493 Schwinghamer, E. A.
222 Schyer, M.
8444 Sciban, R.
5606 Scimborska, L.
1612 Sciottto, C. G.
3153 Scott, C. B.
226 Scott, D. B.
1989 Scott, D. H.
1287 Scott, E. M.
6509 Scott, E. M.
3414 Scott, G. E.
7881 Scott, G. E.
476 Scott, J. A.
926 Scott, P. M.
6008 Scott, P. M.
7830 Scott, P. M.
9696 Scott, P. M.
8657 Scott, P. R.
9557 Scott, R.
2528 Scott, R. H.
8371 Scouten, W. H.
2076 Scowcroft, W. R.
5494 Scowcroft, W. R.
7785 Scroggs, R. E.
24 Scudder, P.
5822 Scully, D. B.
10451 Seabloom, R. W.
7999 Seaby, D. A.
6666 Seagroatt, V.
4307 Seaman, W. L.
5858 Seaman, W. L.
10045 Searle, P. G. E.
10046 Searle, P. G. E.
6653 Sebek, O. K.
8579 Sebesta, K.
9006 Sedavkina, V. A.
3320 Sedlaczek, L.
3321 Sedlaczek, L.
7363 Sedmera, P.
7428 Sedmera, P.
1899 Sedov, E. N.
5345 Sedov, E. N.
2156 Sedov, V. V.
221 Seeger, M. L.
193 Seeger, R.
4264 Seeger, R.
7526 Seeliger, H. P. R.
1047 Seemuller, E.
4507 Seemuller, E.
4621 Seesman, P. A.
6252 Seetharam, A.
6299 Seetharam, A.
1022 Seetharaman, K.
9375 Segel, I. H.
6763 Segel, L. A.
7355 Segerstrom, N.
4991 Sehgal, O. P.
1405 Sehgal, S. N.
1406 Sehgal, S. N.
2774 Sehgal, S. P.
1791 Seideman, S. C.
6127 Seideman, S. C.
760 Seidler, M.
1747 Seidler, M.
1855 Seidler, R. J.
7498 Seidler, R. J.
10142 Seier, S. A.
9269 Seiffers, J.
10450 Seigle-Murandi, F.
4266 Seikguchi, J.
4480 Seinhorst, J. W.
6135 Seitz, L. M.
3428 Sekar, V.
10398 Sekhon, A. S.
2044 Sekhon, H. S.
10425 Sekhuis, V. M.
860 Sekine, H.
5050 Sekine, H.
5281 Sekita, S.
1413 Sekizawa, Y.
4806 Sekizawa, Y.
7915 Selas, I.
5005 Selas, M.
4020 Selby, P.
1702 Seldel, H.
60 Seleznev, I. G.
8398 Selezneva, A. A.
5618 Selezneva, T. I.
5623 Selezneva, T. L.
1243 Selgrade, M.
4745 Seliakova, M.
6031 Seligman, R.
3090 Seligmann, E. B. Jr.
3622 Seliskar, C. E.
3878 Seliverstov, V. I.
5594 Selk, S. H.
7322 Selk, S. H.
7042 Sell, J. L.
8318 Sell, A.
512 Selling, H. A.
8717 Sells, L. A.
3427 Sellzey, G.
6307 Selman, I. W.
253 Selvaraj, J. C.
309 Selvaraj, J. C. (Contd)
437 Selvaraj, J. C.
2666 Selvaraj, J. C.
2692 Selvaraj, S.
4775 Selverston, K. B.
2178 Selwyn, S.
4180 Seman, E. O.
5555 Semenitz, E.
7313 Semenitz, E.
946 Semeniuk, G.
2669 Semeniuk, G.
4335 Semeniuk, G.
10231 Semenova, S. M.
6717 Semenova, A. A.
5599 Semenyuk, V. A.
3283 Semina, L. A.
8218 Semmens, M. J.
8219 Semmens, M. J.
10392 Semple, A. M.
7325 Sen Gupta, P.
8872 Sen, A.
6781 Sen, A. N.
1001 Sen, B.
1011 Sen, B.
1103 Sen, B.
316 Sen, C.
2034 Sen, C.
5417 Sen, C.
8801 Sen, C.
7325 Sen, D.
5702 Sen, P. C.
9075 Sen, P. K.
3685 Sengar, K.
8067 Sengar, K.
2922 Sengupta, P. K.
10386 Sengupta, S.
5849 Senior, B. W.
4600 Senior, E.
6662 Seno, E. T.
274 Senser, F.
1758 Senser, F.
5529 Seol, S. Y.
8523 Sepitkov, J.
2091 Sequeira, L.
9944 Sequeira, L.
10372 Sequin, U.
9778 Serbin, J.
7631 Serebryakova, L. T.
9232 Sergeichuk, M. G.
4704 Serhanescu, R.
8053 Sermoniti, G.
2188 Serot, A.
8439 Serova, E. N.
2707 Serova, Z. Ya.
9306 Serrano, J. A.
182 Sesma, B.
7770 Sesman, B.
1409 Sesnie, J. C.
4055 Sestakova, M.
5038 Sestakova, M.
8294 Sestakova, M.
7570 Seth, A. D.
2755 Seth, M. L.
1897 Sethi, G. S.
8187 Sethi, M. L.
8015 Sethi, R. P.
8163 Sethi, S. K.
6448 Sethunathan, N.
8888 Sethunathan, N.
10075 Sethunathan, N.
4103 Setlow, P.
9008 Setnikar, I.
1407 Seto, H.
10389 Seto, H.
3424 Setti, P.
8376 Sevello, B.
602 Severin, M. J.
7851 Severtsova, M. K.
8531 Seves, A.
9138 Sevetinets, L. Ya.

Author index

- 6695 Sowards, G. J.
8238 Sewell, J. I.
10107 Sexstone, A.
10439 Seyfarth, R. H.
1736 Sezgin, E.
2628 Shabad, L. M.
1705 Shabanovich, A. I.
10306 Shabas, M. N.
3842 Shabi, F. A.
5591 Shablovskaya, E. A.
7386 Shadomy, H. J.
2190 Shadomy, S.
2232 Shadomy, S.
5572 Shadomy, S.
5574 Shadomy, S.
6564 Shadomy, S.
7386 Shadomy, S.
1385 Shafer, H. M.
7093 Shafer, W. M.
3875 Shaffer, P. T. B.
3896 Shaffer, P. T. B.
2143 Shafiee, A.
10327 Shafik, R. M.
6748 Shah, B. H.
1626 Shah, D. N.
10077 Shah, J. G.
2111 Shah, J. J.
2116 Shah, M. H.
5544 Shah, M. H.
3623 Shah, N.
3009 Shah, P. M.
3773 Shah, P. M.
134 Shahani, K. M.
7002 Shahani, K. M.
8644 Shahjahan, A. K. M.
4135 Shaikh, M. R.
1653 Shailaja, M. S.
7380 Shainberg, B.
2768 Shakhapala, K. U.
7152 Shallal, T. A.
8959 Sham, P. R.
2475 Shambe, T.
9993 Shamseldin, S.
9953 Shands, W. A.
1892 Shaner, G. E.
791 Shankar, G.
6068 Shankar, P. A.
6070 Shankar, P. A.
2771 Shankhapala, K. V.
4440 Shankhapala, K. V.
4578 Shankhapala, K. V.
1231 Shanks, L.
2073 Shanmugam, K. T.
4580 Shanmugam, K. T.
1062 Shanmugam, N.
3428 Shanmugasundaram, E. R. B.
3529 Shanmugasundaram, S.
6644 Shannon, K.
6655 Shanson, D. C.
10314 Shanson, D. C.
9678 Shaparb, A. B.
7549 Shaper, J. H.
4642 Shapiey, A. J.
9276 Shapiro, A.
2484 Shaposhnikov, G. L.
6056 Shapton, N.
8239 Sharma, A. K.
5423 Sharma, B. D.
2653 Sharma, C. B. S. R.
6895 Sharma, D.
7973 Sharma, H. C.
499 Sharma, H. R.
1222 Sharma, H. R.
5554 Sharma, H. R.
5558 Sharma, H. R.
5559 Sharma, H. R.
2737 Sharma, J. R.
3559 Sharma, K. P.
1949 Sharma, K. R.
4835 Sharma, M. I. D.
4431 Sharma, N. D.
6274 Sharma, N. D.
7945 Sharma, N. D.
3526 Sharma, N. K.
5421 Sharma, O. P.
7331 Sharma, O. P.
8677 Sharma, O. P.
8736 Sharma, O. P.
1072 Sharma, P. D.
328 Sharma, R.
8636 Sharma, R. D.
4333 Sharma, R. K.
5326 Sharma, R. K.
7872 Sharma, R. K.
2653 Sharma, S.
7135 Sharma, S. K.
5855 Sharma, T. R.
7021 Sharma, T. R.
276 Sharma, Y. R.
1019 Sharma, Y. R.
2670 Sharma, Y. R.
7621 Sharman, A. T.
9911 Sharman, S.
9912 Sharman, S.
9409 Sharon, A.
4869 Sharp, D. G.
4870 Sharp, D. G.
4935 Sharpe, A. N.
5225 Sharpe, E.
1736 Sharpe, M. E.
1739 Sharpe, M. E.
6062 Sharpe, M. E.
9558 Sharpe, M. E.
2963 Shashikhina, M. N.
4680 Shashikhina, M. N.
2789 Shatlai, M. N.
1367 Shatokhina, S. N.
3032 Shatokhina, S. N.
8955 Shatokhina, S. N.
4405 Shattock, P. C.
5371 Shavdiar, L. D.
10068 Shaw, B. D.
5256 Shaw, B. G.
5515 Shaw, B. G.
7299 Shaw, B. G.
5451 Shaw, C. G.
5452 Shaw, C. G.
9999 Shaw, C. G.
4382 Shaw, D. E.
4397 Shaw, D. E.
2935 Shaw, E. J.
3129 Shaw, E. J.
10493 Shaw, E. J.
7048 Shaw, F. B.
4531 Shaw, G. C.
10347 Shaw, G. J.
10305 Shaw, P. D.
288 Shaw, S.
618 Shaw, W. V.
49 Shaykh, M. M.
1075 Shcherbakov, V. K.
9181 Shchetinin, O. I.
3867 Shchetyinin, A. I.
9486 Shea, K.
4488 Shearer, B. L.
8889 Shearer, G.
10206 Shechtman, A. J.
9624 Sheggeby, G. G.
3897 Shehabi, A.
8482 Shehata, A. E.
6329 Shehata, M.
372 Shehata, M. R. A.
6449 Shehata, S. M.
6450 Shehata, S. M.
3060 Shehata, Y. M.
9090 Shehata, Y. M.
5869 Sheikh, B. H.
8418 Sheikh, M. Y.
4403 Shekhawat, G. S.
9765 Shekhawat, G. S.
381 Shekhawat, P. S.
1004 Shekhawat, P. S.
5230 Shelef, L. A.
3853 Shell, G. L.
2193 Shellenberg, N. N.
4756 Shellenberg, N. N.
8379 Shellenberg, N. N.
8380 Shellenberg, N. N.
8381 Shellenberg, N. N.
7981 Shellis, C.
1768 Shelton, J. R.
5488 Shemakanova, N. M.
4802 Shenin, J. D.
4792 Shenin, Y. D.
4801 Shenin, Y. D.
5740 Shenin, Y. D.
8110 Shenin, Y. D.
9138 Shenin, Yu. D.
9140 Shenin, Yu. D.
130 Shennan, J. L.
198 Shenouda, M. S.
9005 Shenoy, S. J.
3087 Shentsev, I. V.
6668 Shentsev, I. V.
3309 Shepard, D. V.
7985 Shepard, J. F.
1603 Shepard, M. C.
4804 Shepel, E. N.
4767 Shepherd, C. A.
4131 Shepherd, C. J.
3340 Shepherd, J.
8356 Shepherd, M. G.
6216 Shepherd, P. L.
8148 Shepherd, S. T.
1836 Sheremali, J. L.
979 Sherertz, P. C.
996 Sheridan, B.
2983 Sherman, F. B.
7598 Sherman, R. M.
7884 Sherman, Y.
7855 Shermanova, G. F.
4997 Sherrington, K. B.
550 Sherris, J. C.
1301 Sherris, J. C.
10230 Sherris, J. C.
4781 Sherstobitova, T. S.
7644 Sherstyuk, S. F.
4070 Sherwood, R. F.
6334 Sherwood, R. T.
8770 Sherwood, R. T.
1244 Shestakov, V. A.
6040 Shetaha, A. E.
67 Shethna, Y. I.
5073 Shethna, Y. I.
5994 Shethna, Y. I.
8929 Shevelev, G. A.
6023 Shewan, J. M.
8461 Shewan, J. M.
1814 Shiba, M.
2446 Shibata, M.
3059 Shibata, M.
3247 Shibata, M.
5746 Shibata, M.
7433 Shibata, M.
1825 Shibata, Y.
5346 Shibkova, N. A.
4134 Shibusawa, A.
3562 Shibuya, F.
8836 Shibuya, F.
7885 Shieh, S. W.
10264 Shield, L. S.
6404 Shields, J. K.
3215 Shiers, D.
3524 Shigemitsu, Y.
6393 Shigo, A. L.
2291 Shih, C. Y.
4433 Shillingford, C. A.
10287 Shilova, S. V.
1272 Shima, M.
8498 Shima, T.

Author index

- 8567 Shimada, H.
8498 Shimada, K.
5719 Shimada, M.
10345 Shimada, M.
5088 Shimada, Y.
2448 Shimamura, M.
2540 Shimamura, M.
5963 Shimanyuk, N. Y.
10373 Shimauchi, Y.
642 Shimazaki, M.
104 Shimazu, Y.
1393 Shimizu, I. R.
6630 Shimizu, I. R.
9285 Shimizu, A.
1328 Shimizu, B.
5660 Shimizu, B.
9382 Shimizu, H.
3670 Shimizu, M.
4283 Shimizu, M.
10146 Shimizu, M.
4087 Shimizu, S.
4099 Shimizu, S.
6001 Shimizu, S.
10129 Shimizu, S.
6797 Shimmmons, B. W.
7837 Shimoda, W.
7838 Shimoda, W.
28 Shimomura, T.
29 Shimomura, T.
6288 Shimony, C.
9566 Shimp, J. L.
1413 Shimura, M.
4806 Shimura, M.
845 Shinagawa, E.
2932 Shinde, P. A.
5952 Shindo, T.
5609 Shinibu, R.
9358 Shinke, R.
9359 Shinke, R.
5022 Shinmyo, A.
5088 Shinmyo, A.
5279 Shinmyo, A.
9472 Shinomaru, H.
1632 Shiori-Nakano, K.
9605 Shiota, H.
5914 Shiota, T.
7391 Shiozaki, M.
3336 Shipkov, V. P.
3716 Shipman, C. J. R.
3238 Shipman, R. H.
9151 Shirahata, K.
9152 Shirahata, K.
9490 Shiraishi, S.
8788 Shiraishi, T.
3836 Shirko, G. N.
10420 Shishido, A.
4542 Shishkina, A. K.
2686 Shivanandappa, N.
5475 Shkarubay, V. V.
782 Shkidchenko, A. N.
9292 Shkidchenko, A. N.
2954 Shklyar, B. Kh.
8085 Shloma, J.
6772 Shmygaleva, T. P.
8090 Shoeb, A.
4188 Shoemaker, S. P.
5704 Shoh, J.
5705 Shoh, J.
1387 Shoji, J.
1388 Shoji, J.
2251 Shoji, J.
2252 Shoji, J.
2261 Shoji, J.
2270 Shoji, J.
7441 Shoji, J.
7448 Shoji, J.
9132 Shoji, J.
9133 Shoji, J.
9134 Shoji, J.
9147 Shoji, J.
10324 Shoji, J. (Contd)
6430 Shokes, F. M.
10153 Shores, K. E.
8260 Shortridge, K. F.
991 Shotwell, O. L.
1804 Shotwell, O. L.
1805 Shotwell, O. L.
1806 Shotwell, O. L.
2623 Shotwell, O. L.
7815 Shotwell, O. L.
9705 Shotwell, O. L.
1393 Shoukry, S.
3310 Shraer, D. P.
6223 Shrestha, K.
3748 Shriniwas
4961 Shriniwas
4835 Shrivastava, J. B.
3479 Shrivastava, S. N.
5340 Shrum, R. D.
6718 Shtannikov, E. V.
3691 Shtuchnaya, V. P.
3085 Shubladze, A. K.
3079 Shudo, K.
3639 Shukla, A. N.
10051 Shukla, A. N.
2818 Shukla, B. N.
5364 Shukla, D. N.
5365 Shukla, D. N.
1009 Shukla, D. S.
3364 Shukla, O. P.
6930 Shukla, O. P.
5315 Shukla, U. S.
9293 Shulgovskaya, E. M.
5469 Shulls, W. A.
5033 Shuman, H.
3763 Shuman, R. F.
2981 Shushunova, A. V.
2491 Shuts, P.
9156 Shuvalova, I. A.
7555 Shvajdetskaja, G. V.
2282 Shvartsman, M. A.
10224 Shvetsova, N. N.
9049 Shvidenko, I. G.
10244 Shvidenko, I. G.
4100 Shvyadas, V. K.
4101 Shvyadas, V. K.
8377 Shvyadas, V. K.
8378 Shvyadas, V. K.
9076 Shvyadas, V. K.
5964 Shvyadas, V. K.
7644 Shvyadas, V. K.
2495 Sibilli, L.
882 Sibirnyi, V. A.
6448 Siddaramappa, R.
8888 Siddarama Gowda, T. K.
10075 Siddarama Gowda, T. K.
1984 Siddiq, E. A.
2750 Siddiqi, M. A.
6154 Siddique, I. H.
3649 Siddiqui, K. A. I.
9896 Siddiqui, M. Q.
10191 Siddiqui, W. A.
9923 Sidhu, G. S.
3297 Sidlikova, I.
3298 Sidlikova, I.
905 Sidorenko, L. P.
2237 Sidorova, I. I.
4370 Sidorova, S. F.
10183 Sidwell, R. W.
6672 Sidwick, J. M.
6707 Sidwick, J. M.
7466 Sidwick, J. M.
8212 Sidwick, J. M.
8958 Siebert, W. T.
4873 Sieburth, J. McN.
3188 Siegf, S. M.
9198 Siegel, B.
5775 Sieger, R. B.
1627 Siehr, D. J.
9027 Siejko, D.
3244 Sieker, L. C.
10539 Sielaff, B. H.
7012 Siems, H.
3680 Sienicka, J.
8968 Sienicka, J.
2844 Siepmann, R.
3607 Siepmann, R.
7636 Siess, M. H.
9873 Siewerth, V.
1843 Sigeo, D. C.
8026 Signer, G. R.
1955 Signoret, P. A.
9769 Signoret, P. A.
9803 Signoret, P. A.
5782 Signorile, G.
10501 Signorile, G.
9498 Sigurdson, S. P.
2568 Sihren, G.
5452 Sijnja, D.
3707 Sijpesteijn, A. K.
3708 Sijpesteijn, A. K.
1464 Sikora, L. J.
9869 Sikora, R. A.
2247 Silaev, A. B.
4790 Silaev, A. B.
6618 Silaev, A. B.
6639 Silaev, A. B.
9144 Silaev, A. B.
10391 Silaev, A. B.
689 Silberman, H. C.
9764 Siler, D. J.
2932 Sililkar, A. M.
5560 Silipo, C.
8548 Silliker, J. H.
2517 Silman, R. W.
1218 Silva, M. T.
1321 Silver, B.
6313 Silver, C. N.
9623 Silver, K. J.
1180 Silver, M.
4109 Silver, M.
8039 Silver, M.
7294 Silver, S.
7398 Silver, W. H.
9308 Silver, W. S.
3658 Silverberg, B. A.
729 Silverberg, D. S.
929 Silverman, G. J.
4274 Silverman, G. J.
6156 Silverman, G. J.
2635 Silveston, J. V.
1419 Silvestri, L. G.
8096 Silvestri, L. G.
8097 Silvestri, L. G.
5735 Sim, K. -Y.
6946 Simanovich, L. S.
4228 Simard, R. E.
5534 Simberkoff, M. S.
4683 Simiu, B.
206 Simkins, K.
8254 Simlacher, H.
6336 Simmonds, N. W.
733 Simmons, G. C.
8238 Simmons, J. D.
7249 Simon, D.
8075 Simon, D. Z.
448 Simon, J.
7549 Simon, M. I.
772 Simon, P. C.
10243 Simon, P. C.
8383 Simon, W. A.
7139 Simone, J.
6620 Simonetti, N.
6595 Simpson, D. E.
5150 Simpson, G. W.
7690 Simpson, G. W.
9610 Simpson, M. E.
4082 Simpson, R. J.
4083 Simpson, R. J.
4084 Simpson, R. J.

Author index

- 85 Simpson,T.J.
6948 Simpson,T.J.
8171 Simpson,T.J.
3297 Simuth,J.
3298 Simuth,J.
9022 Sinclair,A.
9151 Sinclair,A.C.
9152 Sinclair,A.C.
7272 Sinclair,A.G.
2031 Sinclair,J.B.
4301 Sinclair,J.B.
4310 Sinclair,J.B.
5314 Sinclair,J.B.
6196 Sinclair,J.B.
6355 Sinclair,J.B.
7990 Sinclair,J.B.
8615 Sinclair,J.B.
8826 Sinclair,J.B.
2647 Sinell,H.-J.
8937 Sineriz,F.
135 Sing,E.L.
8477 Sing,E.L.
9538 Sing,E.L.
1957 Sing,O.V.
4132 Sing,R.K.
1562 Singer,J.M.
7389 Singer,J.M.
8128 Singer,J.M.
9272 Singer,J.M.
7345 Singer,M.
5071 Singer,S.J.
795 Singer,T.P.
157 Singh,A.
2711 Singh,A.
6164 Singh,A.
6302 Singh,A.
7817 Singh,A.
8163 Singh,A.
315 Singh,A.B.
1904 Singh,A.B.
1931 Singh,A.P.
2767 Singh,A.P.
3629 Singh,A.P.
5364 Singh,A.P.
4675 Singh,B.
276 Singh,B.M.
1019 Singh,B.M.
2670 Singh,B.M.
1052 Singh,B.P.
1053 Singh,B.P.
1063 Singh,B.P.
1912 Singh,B.P.
3590 Singh,B.P.
7874 Singh,B.R.
4431 Singh,D.
7874 Singh,D.R.
1025 Singh,D.S.
6275 Singh,D.S.
1890 Singh,D.V.
2755 Singh,D.V.
3548 Singh,D.V.
4464 Singh,G.
4490 Singh,G.
7112 Singh,G.
8751 Singh,G.P.
1237 Singh,H.
5339 Singh,H.
5779 Singh,H.
6514 Singh,H.
9864 Singh,H.
10171 Singh,H.
1897 Singh,H.B.
5514 Singh,H.D.
7291 Singh,H.D.
1911 Singh,H.G.
8711 Singh,H.P.
1017 Singh,I.
1848 Singh,I.
1084 Singh,K.
4814 Singh,K.
5315 Singh,K. (Contd)
7133 Singh,K.
1043 Singh,K.D.
5330 Singh,K.G.
997 Singh,K.L.
4861 Singh,K.P.
3698 Singh,L.
6508 Singh,L.
5440 Singh,M.
4532 Singh,N.
1079 Singh,N.I.
332 Singh,O.V.
2825 Singh,O.V.
5745 Singh,P.
8593 Singh,P.N.
3548 Singh,P.R.
3358 Singh,R.
3468 Singh,R.
3469 Singh,R.
5268 Singh,R.
7149 Singh,R.
7869 Singh,R.
1073 Singh,R.A.
6222 Singh,R.A.
6290 Singh,R.A.
7887 Singh,R.A.
7149 Singh,R.B.
2681 Singh,R.K.
7679 Singh,R.K.
3595 Singh,R.P.
5385 Singh,R.P.
6540 Singh,R.P.
7913 Singh,R.P.
9985 Singh,R.P.
1085 Singh,R.S.
1858 Singh,R.S.
7800 Singh,R.S.
1065 Singh,S.
3464 Singh,S.
3486 Singh,S.
4371 Singh,S.
5372 Singh,S.
7135 Singh,S.
8728 Singh,S.
1021 Singh,S.D.
8649 Singh,S.D.
3528 Singh,S.J.
4400 Singh,S.J.
4415 Singh,S.J.
4418 Singh,S.J.
5702 Singh,S.J.
7143 Singh,S.J.
2663 Singh,S.M.
1168 Singh,S.N.
2867 Singh,S.N.
4557 Singh,S.N.
4451 Singh,S.P.
2959 Singh,S.R.
1073 Singh,S.S.
2737 Singh,T.H.
4333 Singh,T.P.
6096 Singh,U.B.
8283 Singh,U.B.
757 Singh,U.N.
9837 Singh,U.N.
6508 Singh,V.
1874 Singh,V.P.
4498 Sinha,A.K.
6246 Sinha,A.K.
7873 Sinha,A.K.
8792 Sinha,A.P.
2694 Sinha,D.C.
2760 Sinha,D.C.
6231 Sinha,R.C.
7891 Sinha,R.C.
342 Sinha,R.N.
7359 Sinha,R.N.
3465 Sinha,S.
6444 Sinha,S.K.
8633 Sinha,S.K.
8634 Sinha,S.K. (Contd)
8827 Sinha,S.K.
1060 Sinha,V.C.
4502 Sinha,V.C.
9934 Sinigovets,M.E.
7840 Siniscalco,A.
9790 Siniscalco,A.
60 Sinitsina,N.P.
8110 Sinitsyna,Z.T.
824 Sinjavskaja,O.I.
9737 Sinkovic,D.
1660 Sinner,M.
7818 Sinnhuber,R.O.
9704 Sinnhuber,R.O.
7032 Sinskey,A.J.
10145 Sinskey,A.J.
10623 Sinski,J.T.
5687 Sipak-Krysiak,A.
1743 Sipka,M.
2094 Siporin,C.
3088 Sir,Z.
2695 Siradhana,B.S.
10425 Sirks,F.L.
1193 Sirotnak,F.M.
9583 Sirvio,P.
234 Sisodia,C.S.
4438 Sivan,J.
4382 Sivanesan,A.
1048 Sivaprakasam,K.
1049 Sivaprakasam,K.
4489 Sivaprakasam,K.
2458 SivaRaman,C.
1563 Sivers,V.S.
2990 Sivoldodsky,E.P.
8979 Sivoldodsky,E.P.
1131 Siwecki,R.
1142 Siwecki,R.
3305 Sjoblad,R.D.
7278 Sjoblad,R.D.
5815 Sjoblom,M.
7606 Sjoquist,J.
7696 Skach,J.
7609 Skachova,H.
7610 Skachova,H.
1645 Skafar,S.
10592 Skahan,J.M.
3491 Skajennikoff,M.
3919 Skaug,N.
7084 Skelkvale,R.
5092 Skerman,T.M.
5687 Skibinska,I.
8272 Skiniyasan,V.R.
4996 Skinner,F.A.
6811 Skinner,F.A.
10646 Skinner,F.A.
6382 Skinner,M.F.
7989 Skinner,M.F.
5248 Skinner,R.H.
3987 Skinsnes,D.K.
6349 Skipp,R.A.
893 Skirstymonskij,A.I.
8938 Skirstymonskij,A.L.
3448 Skjelkvale,R.
9571 Sklan,D.
10304 Sklavounos,C.G.
485 Skotenko,A.A.
7298 Skold,O.
590 Skole,R.D.
4412 Skoropad,W.P.
1064 Skotland,C.B.
8772 Skovmand,B.
6297 Skoyen,I.O.
448 Skrdleta,V.
2897 Skriabin,G.K.
5519 Skryabin,G.K.
7596 Skryabin,G.K.
7706 Skryabin,G.K.
5384 Skrzeczkowski,S.
1307 Skupchenko,K.V.
2999 Skupchenko,K.V.

Author index

9040 Skupchenko,K.-V. (Contd)	7803 Smith,G.C. (Contd)	5585 Snipes,W.
4133 Skupin,J.	7804 Smith,G.C.	2387 Snoeyenbos,G.H.
5505 Skurjatin,N.E.	8544 Smith,G.C.	3096 Snoeyink,V.L.
7334 Skwarek,T.	9765 Smith,G.C.	5776 Snoeyink,V.L.
10292 Slaney,L.	1274 Smith,G.M.	2041 Snow,G.A.
6849 Slateen,K.	5474 Smith,G.R.	8689 Snow,J.P.
4600 Slater,J.H.	8230 Smith,G.S.	6556 Snyder,M.J.
6972 Slaughter,J.C.	1041 Smith,H.	8598 Snyder,W.C.
1678 Slavik,K.	8172 Smith,H.L.	2970 Snyder,W.E.
1678 Slavikova,V.	3453 Smith,H.L.-Jr.	1658 Snygg,B.G.
3043 Slawinski,W.	1846 Smith,I.M.	5076 Snygg,B.G.
3044 Slawinski,W.	3957 Smith,J.A.	6989 Snygg,B.G.
5687 Slawinski,W.	5752 Smith,J.A.	4314 So,M.L.
5728 Slechter,L.	7367 Smith,J.A.	10406 Soares,L.A.
10504 Sleer,A.M.	8270 Smith,J.A.	6857 Sobek,J.M.
1998 Sleesman,J.P.	1872 Smith,J.D.	1980 Sobel,Z.
6250 Sleiman,F.	4485 Smith,J.D.	9060 Sobolev,V.R.
3675 Slepach,J.	8795 Smith,J.D.	7693 Sobotka,M.
5403 Slepach,D.A.	5017 Smith,J.E.	9247 Sobotka,M.
7458 Slepukhin,A.Y.	7488 Smith,J.E.	8243 Sobsey,M.D.
2519 Sletten,A.	9191 Smith,J.E.	4284 Sochard,M.R.
3763 Sletzingers,M.	1759 Smith,J.F.	2486 Soda,K.
10579 Slifkin,M.	4608 Smith,J.H.	3251 Soda,K.
5234 Slizewska,M.	220 Smith,J.L.	5961 Soda,K.
544 Slosarek,M.	4604 Smith,J.L.	2577 Soda,M.A.E.
696 Slote,L.	5989 Smith,J.L.	6150 Soda,S.
1378 Slugin,M.D.	844 Smith,J.S.	3974 Sodeman,T.M.
3051 Slugin,M.D.	6497 Smith,J.T.	7560 Soderland,E.
7417 Slugin,M.D.	4210 Smith,K.M.	5477 Soderstrom,B.E.
2008 Sly,J.M.A.	3961 Smith,L.	5354 Sodhi,S.S.
2684 Slykhuis,J.T.	4955 Smith,L.S.	10373 Soga,K.
8650 Slykhuis,J.T.	4624 Smith,N.G.	4633 Sogaard,H.
6783 Slyter,L.L.	4533 Smith,P.J.	7661 Sogin,M.L.
632 Smale,T.C.	5360 Smith,P.R.	5410 Sohr,A.C.
4690 Small,L.D.	7902 Smith,P.R.	336 Sohi,H.S.
2059 Small,R.H.	8667 Smith,P.R.	1069 Sohi,H.S.
9649 Smallcomb,J.	8668 Smith,P.R.	1080 Sohi,H.S.
8854 Smalley,E.B.	9839 Smith,P.R.	3504 Sohi,H.S.
180 Smart,J.L.	10092 Smith,R.A.	4305 Sohi,H.S.
8089 Smetana,O.	10141 Smith,R.A.	4374 Sohi,H.S.
19 Smetanin,V.V.	8688 Smith,R.E.	4494 Sohi,H.S.
6434 Srid,A.E.	2893 Smith,R.L.	6357 Sohi,H.S.
9787 Smilhakovic,H.	3608 Smith,R.S.-Jr.	3441 Sohi,S.S.
8873 Smirnov,V.B.	8861 Smith,R.S.-Jr.	1500 Sohn,F.W.
7659 Smirnov,Yu.V.	1613 Smith,S.H.	692 Soifer,R.D.
5766 Smirnov,I.P.	5369 Smith,S.H.	10432 Sojka,J.
2963 Smirnov,N.A.	7151 Smith,S.H.	6952 Sojka,W.J.
1575 Smirnov,N.E.	4602 Smith,S.N.	6357 Sokhi
2865 Smirnov,N.V.	7867 Smith,S.N.	336 Sokhi,S.S.
6644 Smith,A.	3213 Smith,T.F.	1069 Sokhi,S.S.
7335 Smith,A.B.	7196 Smith,T.H.	4305 Sokhi,S.S.
4076 Smith,A.G.	3112 Smith,T.L.	4374 Sokhi,S.S.
2103 Smith,A.L.	7729 Smith,T.L.	4494 Sokhi,S.S.
427 Smith,A.M.	9615 Smith,V.J.	5326 Sokhi,S.S.
2861 Smith,A.M.	7239 Smith,W.H.	6186 Sokhi,S.S.
8014 Smith,A.M.	10014 Smith,W.H.	8414 Sokolov,A.B.
3694 Smith,A.R.W.	380 Smittle,D.A.	606 Sokolov,L.B.
8491 Smith,B.R.	9606 Smittle,R.B.	659 Sokolov,N.N.
10144 Smith,C.C.	5238 Smolensky,D.C.	1448 Sokolov,N.N.
2000 Smith,D.A.	5533 Smolyanskaya,A.Z.	61 Sokolova,L.V.
8786 Smith,D.A.	2258 Smulewicz,S.	1705 Sokolova,Ye.D.
1815 Smith,D.D.	3376 Smykal,B.	6653 Sokolski,W.T.
9610 Smith,D.F.	3394 Smykal,B.	5093 Sokotov,A.A.
5129 Smith,D.G.	2387 Smyser,C.F.	3138 Solarino,G.
1979 Smith,D.H.	1830 Smyth,C.J.	3373 Solberg,M.
5110 Smith,D.H.	2343 Smyth,N.	6027 Solberg,M.
1977 Smith,D.M.	9427 Snapka,R.M.	2831 Soleimani,P.
7108 Smith,D.M.	10514 Sneath,P.H.A.	4516 Solel,Z.
4331 Smith,D.R.	681 Sneath,R.W.	9853 Solel,Z.
10069 Smith,D.W.	9348 Snedecor,B.R.	5607 Solfr,R.
7620 Smith,E.E.	363 Sneh,B.	1646 Soliday,C.L.
3552 Smith,E.L.	6417 Sneh,B.	4775 Solodov,A.I.
9576 Smith,F.C.	8881 Sneh,B.	5341 Solodukhina,L.D.
6178 Smith,F.F.	79 Snell,G.C.	3255 Solomon,B.
6179 Smith,F.F.	5739 Snezhkova,L.G.	6393 Solomon,D.S.
177 Smith,G.C.	6751 Sng,E.H.	7019 Solomon,H.M.
1790 Smith,G.C.	10581 Sng,E.H.	9683 Solomon,H.M.
1791 Smith,G.C.	7629 Snider,M.D.	9730 Solomon,H.M.
2614 Smith,G.C.	742 Snijders,J.M.A.	559 Solomon,S.
6127 Smith,G.C.	8259 Snijders,J.M.A.	5645 Solov'eva,N.N.

Author index

- 7340 Soloviev,V.D.
 8119 Solovieva,V.E.
 3080 Solovyeaba,M.
 8394 Soman,B.L.
 8985 Somasekhara,S.
 105 Somavilla,J.F.
 1638 Somerville,R.L.
 461 Sometani,J.
 2905 Somieya,J.
 10632 Sominina,A.A.
 10633 Sominina,A.A.
 6638 Somma,S.
 227 Sommer,N.F.
 6317 Sommer,N.F.
 2630 Sommereyns,G.
 10603 Sondag,J.E.
 9190 Sondhi,H.S.
 1634 Sone,N.
 1584 Songer,J.G.
 6119 Sonnenschein,B.
 9682 Sonnenschein,B.
 7509 Sonntag,H.-G.
 9277 Sonntag,H.-G.
 2677 Sonone,H.N.
 38 Soo-Hoo,T.S.
 4462 Sooch,B.S.
 6356 Sood,G.K.
 4217 Soong,L.E.
 7109 Soong,M.-M.
 4593 Soos,T.
 6710 Sorber,C.A.
 2447 Sorger,D.
 6551 Sorger,S.
 9038 Soriano Garcia,F.
 8579 Sorm,F.
 5246 Sormunen,R.
 5247 Sormunen,R.
 5862 Sos,A.
 1882 Sosulski,F.
 5204 Sotelo,A.
 6764 Sottile,W.
 209 Sottini,E.
 2991 Souccar,N.
 6012 Souki,N.T.
 1045 Soumini Rajagopalan,C.K.
 1048 Soumini Rajagopalan,C.K.
 4489 Soumini Rajagopalan,C.K.
 6245 Soumini Rajagopalan,C.K.
 3189 Sourek,J.
 544 Soutel,J.
 498 Sous,H.
 3029 Sous,H.
 1218 Sousa,J.C.F.
 5204 Sousa,V.
 490 Scussy,C.J.
 1319 Scussy,C.J.
 4644 Scussy,C.J.
 9061 Scussy,C.J.
 10125 Scussy,C.J.
 2008 Scuthall,D.R.
 7370 Southern,P.M.,Jr.
 3034 Southgate,R.
 3035 Southgate,R.
 2573 Southward,C.R.
 10103 Souw,P.
 6435 Sowden,F.J.
 1979 Sowell,G.Jr.
 8776 Sowell,G.Jr.
 151 Sozzi,T.
 162 Sozzi,T.
 2260 Spach,G.
 3699 Spadaro,J.A.
 5626 Spaepen,M.S.
 902 Spanggord,R.J.
 62 Spano,L.A.
 5555 Spanudakis,S.
 7066 Sparapano,L.
 7917 Sparapano,L.
 1493 Sparell,L.
 1986 Sparnaaij,L.D.
 3132 Sparrow,E.B.
 5908 Spatt,B.G.
 1618 Spaulding,E.H.
 4285 Spaulding,P.L.
 216 Speck,M.L.
 4169 Speck,M.L.
 9274 Speck,M.L.
 9652 Speck,M.L.
 6776 Speck,W.T.
 7836 Speers,G.M.
 9809 Spehar,V.
 4884 Speidel,H.K.
 10481 Speidel,H.K.
 2236 Speight,T.M.
 2962 Speirs,J.I.
 4672 Speirs,J.I.
 7089 Speirs,J.I.
 4833 Speiser,P.P.
 4767 Spence,W.N.
 1759 Spencer,D.M.
 2017 Spencer,D.M.
 6364 Spencer,D.M.
 7442 Spencer,H.
 928 Spencer,J.V.
 671 Spendlove,J.C.
 7484 Spendlove,J.C.
 9474 Spenser,I.D.
 4636 Speranskaya,O.N.
 7810 Spohn,J.A.
 6073 Spicer,D.
 664 Spicer,D.S.
 5523 Spicher,G.
 5781 Spiegel,S.J.
 2047 Spiers,A.G.
 3915 Spiers,A.S.D.
 5770 Spilsbury,J.F.
 4274 Spira,W.M.
 4540 Spires,A.G.
 2707 Spiridonova,G.I.
 2246 Spiridonova,I.A.
 2542 Spivey,M.J.
 3149 Spivey,M.J.
 6883 Spizien,J.
 10114 Splittstoesser,C.M.
 6701 Splittstoesser,D.F.
 7598 Splittstoesser,D.F.
 9593 Splittstoesser,D.F.
 10114 Splittstoesser,D.F.
 10457 Spohn,E.
 3940 Spoon,D.M.
 9041 Spoon,D.R.
 3834 Sporzynska,Z.
 3835 Sporzynska,Z.
 297 Spotts,R.A.
 8802 Spotts,R.A.
 5758 Sprague,R.W.
 5759 Sprague,R.W.
 11 Spratt,B.G.
 4761 Spratt,B.G.
 4768 Spratt,B.G.
 1563 Spravcev,N.Kh.
 8903 Sprent,J.I.
 452 Sprent,J.L.
 662 Spring,S.B.
 3822 Spring,S.B.
 3266 Sprinson,D.B.
 5416 Spurr,H.W.Jr.
 9955 Spurr,H.W.Jr.
 5629 Squinazi,F.
 3261 Squires,R.G.
 282 Sreedharan,A.
 1032 Sreedharan,A.
 1088 Sreekantiah,K.R.
 5223 Sreekantiah,K.R.
 213 Sreenivasan,A.
 214 Sreenivasan,A.
 10428 Sreenivasan,A.
 1878 Sridhar,R.
 5464 Srimathi,R.A.
 314 Srinivasan,N.
 3513 Srinivasan,N. (Contd)
 157 Srinivasan,R.A.
 7753 Srinivasan,R.A.
 4330 Srinivasan,T.E.
 5430 Srinivasan,T.N.
 9236 Srinivasan,V.A.
 7343 Srivastava,G.C.
 2955 Srivastava,A.K.
 2957 Srivastava,A.K.
 5575 Srivastava,A.K.
 8308 Srivastava,A.S.
 3582 Srivastava,C.M.
 3479 Srivastava,D.P.
 7262 Srivastava,G.C.
 5359 Srivastava,H.S.
 7140 Srivastava,J.S.
 1038 Srivastava,K.D.
 1890 Srivastava,K.D.
 3490 Srivastava,K.D.
 5137 Srivastava,K.K.
 3590 Srivastava,K.M.
 8314 Srivastava,K.S.
 1924 Srivastava,M.P.
 3696 Srivastava,O.P.
 10138 Srivastava,P.K.
 3812 Srivastava,S.C.
 1084 Srivastava,S.N.
 2034 Srivastava,S.N.
 3629 Srivastava,S.P.
 7155 Srivastava,Y.N.
 7432 St.Pyrek,J.
 1138 Staas-Ebeget,E.M.
 6805 Stabekis,P.D.
 7994 Stachurski,A.
 6000 Stack,M.E.
 5213 Stadhouders,J.
 7724 Stadhouders,J.
 7755 Stadhouders,J.
 9548 Stadhouders,J.
 9549 Stadhouders,J.
 8601 Stadniuk,J.K.
 9521 Staffeldt,E.E.
 9522 Staffeldt,E.E.
 685 Stafford,D.A.
 2910 Stafford,D.A.
 6673 Stafford,D.A.
 6519 Stagg,C.H.
 1423 Stahl,G.L.
 8590 Stahl,P.
 3862 Stainslawska-Swiatkowska
 6642 Stajner,K.
 2429 Stakheyev,I.V.
 2431 Stakheyev,I.V.
 4032 Stakheyev,I.V.
 1132 Staley,J.M.
 1137 Staley,J.M.
 6004 Stalhandske,C.
 4861 Stall,J.B.
 6694 Stalzer,W.F.
 4966 Stamm,W.E.
 9151 Stanaszek,R.S.
 10621 Standard,P.G.
 6556 Standiford,H.C.
 2779 Stanford,E.H.
 2780 Stanford,E.H.
 297 Stang,E.J.
 8733 Stanghellini,M.E.
 8884 Stanghellini,M.E.
 7590 Stanier,R.Y.
 581 Staniforth,S.E.
 7306 Stanisich,V.A.
 5284 Stanislauskii,E.S.
 2646 Stanislauskii,E.S.
 3331 Stanislauskii,E.S.
 4295 Stanulis,J.
 10444 Stankevich,V.V.
 9736 Stankiewicz,D.
 7723 Stankiewicz,Z.K.
 8286 Stankiewicz,Z.K.
 4206 Stanley,D.W.

Author index

6050	Stanley, G.	9000	Stenberg, K.	3000	Stochmal, I. (Contd)
6617	Stanley, H. E.	6490	Stenderup, A.	3003	Stochmal, I.
8197	Stanley, H. E.	9000	Stening, G.	4728	Stochmal, I.
8198	Stanley, H. E.	3851	Stenstrom, M. K.	2618	Stockmeyer, G.
9152	Stanszek, R. S.	3878	Stepanets, V. I.	7967	Stoessig, A.
10626	Stanton, G. J.	3291	Stepanov, V. M.	9418	Stoeva, St. P.
4219	Stantschew, W.	6866	Stepanov, V. M.	4128	Stohs, S. J.
2029	Staphorst, J. L.	8347	Stepanov, V. M.	5407	Stoilov, M.
3756	Staquet, M.	9435	Stepanov, V. M.	1743	Stojanovic, L.
4596	Starchenkov, E. P.	10317	Stepanov, V. M.	2648	Stojanovic, L.
765	Stark, R. L.	2864	Stepanova, I. V.	7372	Stokes, A.
9014	Stark, R. L.	4711	Stepanova, M. I.	5270	Stoloff, L.
4816	Stark, W. M.	4520	Stepanova, M. Y.	9688	Stoloff, L.
10221	Stark, W. M.	2888	Stepanovich, L. T.	9706	Stoloff, L.
2464	Starks, J. R.	5724	Stepanyan, E. S.	1708	Stolp, H.
290	Starling, T. M.	1136	Stephan, B. R.	8973	Stolz, E.
4191	Staron, T.	1140	Stephan, B. R.	2054	Stolzy, L. H.
5714	Staron, T.	1141	Stephan, B. R.	5349	Stolzy, L. H.
9084	Starostina, Z. D.	8948	Stephan, R.	2059	Stoner, C. A.
2916	Starovoitov, I. I.	9136	Stephanova, N. E.	6163	Stoner, O. M.
438	Starr, J. L.	5587	Stephen, E. L.	8238	Stoner, R. B.
1918	Starr, J. L.	1816	Stephen, J.	8780	Stoner, A. K.
7911	Starr, J. L.	5282	Stephen, J.	2691	Stoner, W. N.
3340	Starr, M. P.	8	Stepien, P. P.	4322	Stoner, W. N.
3993	Starr, M. P.	10527	Sterbacek, Z.	4856	Stones, T.
8064	Starr, M. P.	10300	Stern, C.	6674	Stones, T.
3993	Starr, P. B.	1644	Sternberg, D.	6585	Stoodley, R. J.
7239	Staskawicz, B. J.	5068	Sternberg, D.	6680	Storck, W. J.
9840	Stassig, D. L.	5932	Sternberg, D.	8214	Storck, W. J.
7577	Stastna, J.	5094	Sternberg, M.	4788	Storm, D. R.
9303	Staszewicz, M.	8344	Sternberg, M.	7415	Storm, D. R.
9810	Statler, G. D.	416	Sternier, T. E.	8109	Stott, E. J.
9935	Statler, G. D.	8185	Sternson, L.	6454	Stotzky, G.
10549	Stauffer, L. R.	4324	Steubing, L.	6455	Stotzky, G.
1360	Staugaard, P.	10500	Steuer, W.	8018	Stotzky, G.
3350	Stauton, J.	6952	Stevens, A. E.	4058	Stoudt, T. H.
2555	Stavaskaja, S. S.	7617	Stevens, B. J. H.	6239	Stouffer, R. F.
3828	Stavri, H.	2952	Stevens, D. A.	9824	Stouffer, R. F.
5290	Stavric, S.	8191	Stevens, G. S.	756	Stouthamer, A. H.
7089	Stavric, S.	4662	Stevens, L. I.	4940	Stouthamer, A. H.
8605	Steadman, J. R.	5715	Stevens, P.	10515	Stouthamer, A. H.
663	Stealey, V.	7439	Stevens, P.	1456	Stover, E. L.
2559	Stec, E.	10227	Stevens, P.	2298	Stover, E. L.
8468	Stec, E.	8350	Stevens, R. A.	298	Stover, R. H.
7051	Steele, L.	7572	Stevens, S. E. Jr.	5350	Stover, R. H.
4670	Steele, N. M.	919	Stevenson, K. E.	6369	Stover, R. H.
2611	Steen, J. B.	5201	Stevenson, K. E.	2770	Stow, J. R.
9408	Stees, J. L.	6157	Stevenson, K. E.	7165	Stowers, K. L.
6254	Stefanac, Z.	4232	Stevenson, K. R.	5120	Stoyachenko, I. A.
338	Stefanis, D.	4594	Stevenson, K. R.	455	Stoydin, G.
4560	Stefanovich, L. I.	2361	Stevenson, L. H.	9699	Stoyne, P. S.
1171	Stefanson, R. C.	1673	Stevenson, L. L.	4950	Stramer, S. L.
408	Stefuruk, V. P.	5934	Stewart, C. S.	5969	Strand, L. L.
8718	Stegemann, H.	8155	Stewart, D.	1041	Strange, R. N.
6423	Steglich, W.	9145	Stewart, D.	6273	Strange, R. N.
8430	Steglich, W.	5395	Stewart, E. L.	421	Stranks, D. W.
9155	Steglich, W.	895	Stewart, G. G.	4555	Stranks, D. W.
5605	Steiger, B.	5175	Stewart, G. G.	2929	Stransky, D.
1994	Stein, A.	6968	Stewart, G. G.	10379	Strashinova, E. N.
8217	Stein, T.	9540	Stewart, J. C.	4857	Straub, O. C.
8948	Steinbeck, A.	2875	Stewart, W. D. P.	678	Strauch, D.
6386	Steinbeck, K.	3220	Stewart, W. D. P.	1501	Strauch, D.
3382	Steiner, A.	519	Stewart, W. E.	2289	Strauch, D.
7847	Steiner, D. W.	988	Steyn, M.	4857	Strauch, D.
3926	Steiner, H.	8574	Steyn, M.	6705	Strauch, D.
2735	Steiner, K. G.	226	Steyn, P. S.	4808	Strauss, D.
2821	Steiner, K. G.	2635	Steyn, P. S.	9629	Strauss, D.
6260	Steiner, K. G.	3339	Steyn, P. S.	10375	Strauss, D. G.
4900	Steinert, J.	5127	Steyn, P. S.	10540	Strauss, R. R.
2996	Steingrimsson, O.	6614	Stezowski, J. J.	10516	Stravs, A.
190	Steinkraus, K. H.	6615	Stezowski, J. J.	8306	Streips, V. N.
1622	Steinkraus, K. H.	4654	Stickler, D. J.	3711	Streissel, G.
8452	Steinkraus, K. H.	7005	Stiles, M. E.	2191	Streng, W. H.
9220	Steinmetz, I.	521	Still, P. E.	9022	Stretton, R. J.
7550	Steinmetz, M.	3009	Stille, W.	340	Strider, D. L.
7965	Stellmach, G.	3773	Stille, W.	4500	Strider, D. L.
3260	Stellwag, E. J.	2437	Stinson, M. W.	9000	Stridh, S.
3406	Stelmach, W.	4534	Stipes, R. J.	2029	Strijdom, B. W.
3832	Stelzner, A.	5461	Stipes, R. J.	2074	Strijdom, B. W.
2985	Stemmer, K.	2993	Stochmal, I.	2079	Strijdom, B. W.

Author index

- 8028 Strijdom, B. W. (Contd)
8031 Strijdom, B. W.
8899 Strijdom, B. W.
7767 Stringer, W. C.
8549 Stringer, W. C.
9676 Stringer, W. C.
8999 Stringfellow, D. A.
8914 Stripes, R.
6620 Strippoli, V.
4981 Strnadova, K.
2629 Strobela, G.
9853 Strobela, G. A.
10187 Stroder, J.
9484 Strohl, W. R.
9410 Strom, R.
6653 Stroman, D. W.
8781 Stromberg, E. L.
11 Strominger, J. L.
1205 Strominger, J. L.
4141 Strominger, J. L.
6835 Strominger, J. L.
2274 Strong, J. E.
3291 Strongin, A. Y.
8347 Strongin, A. Y.
9435 Strongin, A. Y.
1 Stros, F.
804 Stros, F.
805 Stros, F.
3240 Stros, F.
5038 Stros, F.
5905 Stros, F.
8294 Stros, F.
1440 Stroshane, R. M.
2171 Stroshane, R. M.
6818 Stroshane, R. M.
2848 Strouts, R. G.
4651 Strumillo, J.
8970 Strumillo, J.
3788 Stryd, R. P.
468 Strzelczyk, A. B.
4615 Strzelczyk, A. B.
4116 Strzelczyk, E.
6002 Strzelczyk, E.
869 Strzelecka, H.
870 Strzelecka, H.
6720 Stuart, D. G.
10474 Stuart, D. G.
4539 Stuart, M.
5360 Stubbs, L. L.
8667 Stubbs, L. L.
8668 Stubbs, L. L.
5868 Studen, M.
530 Sturkovich, R. Ya.
9752 Stuteville, D. L.
2625 Stutz, H. K.
8460 Stutzman, D. L.
535 Sverteczky, J.
9801 Styne, B. A.
9088 Suami, T.
1325 Suarez, A.
9063 Suarez, A.
10196 Suassuna, I.
10216 Suassuna, I. R.
2077 Subba Rao, N. S.
4582 Subba Rao, N. S.
5501 Subba Rao, N. S.
4172 Subba Rao, R. V.
8034 Subba Rao, R. V.
4769 Subbotina, N. A.
7684 Subbotina, Y. L.
5647 Subden, R.
7312 Subden, R. E.
7333 Subik, J.
10196 Subik, J.
3518 Subirats, F. J.
5919 Subrahmanyam, A.
7494 Subrahmanyam, D. V.
1040 Subrahmanyam, P.
1071 Subrahmanyam, P.
3500 Subrahmanyam, P.
4436 Subrahmanyam, P. (Contd)
6194 Subrahmanyam, P.
1849 Subramaniam, C. L.
559 Subramaniam, S.
890 Subramaniam, T. R.
8916 Subramaniam, T. R.
9917 Subramanyam, H.
8752 Subramoniam, V.
9918 Subramoniam, V.
6914 Suda, K.
5958 Sudarmadji, S.
5131 Sudenko, V. I.
6448 Sudhakar-Barik
2107 Sudo, S. Z.
6767 Sudo, S. Z.
3256 Sudovtsov, V. E.
9472 Suemitsu, R.
6481 Suga, K.
6851 Suganuma, T.
2607 Sugawara, H.
1328 Sugawara, S.
5660 Sugawara, S.
7081 Sugii, S.
7850 Sugii, S.
858 Sugimoto, E.
7704 Sugimoto, H.
8420 Sugimoto, K.
9690 Sugimoto, T.
1318 Sugimura, Y.
8145 Sugimura, Y.
3295 Sugio, T.
5513 Sugio, T.
7622 Sugio, T.
28 Sugiura, M.
29 Sugiura, M.
3232 Sugiura, M.
4065 Sugiura, M.
8321 Sugiura, M.
7635 Sugiura, T.
1829 Sugiyama, H.
7082 Sugiyama, H.
10032 Sugiyama, S.
6019 Sugumarana, M.
9142 Suhadolnik, R. J.
7029 Suikko, M.
2100 Sujata
6723 Sujbert, L.
9214 Sujumoto, S.
10224 Sukharevich, V. M.
7596 Sukhodol'skaya, G. V.
7662 Sukhodol'skaya, G. V.
3187 Sula, L.
8965 Sulaney, E. L.
6688 Suler, D. J.
9186 Sulick, D. J.
9844 Suljagic, M.
1018 Sulladmath, V. V.
6184 Sulladmath, V. V.
2634 Sullivan, G.
1734 Sullivan, J. J.
8356 Sullivan, P. A.
4561 Sullivan, R.
5784 Sullivan, R.
953 Sullivan, T. W.
3182 Sulova, J.
3187 Sulova, J.
7257 Sultana, K.
659 Sumarokov, A. A.
1448 Sumarokov, A. A.
2282 Sumarokov, A. A.
7458 Sumarokov, A. A.
3231 Sumi, A.
2244 Sumino, Y.
1958 Summanwar, A. S.
9018 Summer, W.
4587 Summerfield, R. J.
10066 Summerfield, R. J.
3668 Summers, A. O.
8824 Summers, L. A.
6675 Summers, R.
8272 Summers, R. J.
380 Sumner, D. R.
1951 Sumner, G.
4416 Sumner, D. R.
7966 Sumner, D. R.
9969 Sumner, D. R.
3720 Sumrell, G.
3723 Sumrell, G.
9110 Sumro, A. K.
4829 Sumskaya, L. V.
4814 Sun, S.
9798 Sun, S.-K.
5099 Sun, S. C.
2487 Sunaga, T.
5764 Sunagawa, S.
10403 Sunagawa, S.
2080 Sundara Rao, W. V. B.
10364 Sundaralingam, M.
8879 Sundaram, B. M.
1027 Sundaram, N. V.
8649 Sundaram, N. V.
7672 Sundararajan, P. R.
940 Sundberg, W. J.
5441 Sundman, V.
6469 Sunouchi, T.
1697 Suomalainen, H.
3740 Suomalainen, H.
3741 Suomalainen, H.
5108 Suomalainen, H.
5166 Suomalainen, H.
6971 Suomalainen, H.
7218 Sup Chung, H.
7253 Supiano, M. A.
3048 Sur, P.
5807 Suratt, P. M.
4035 Suretter, R.
1375 Surikova, E. I.
3047 Surikova, E. I.
7806 Surkiewicz, B. F.
431 Surovtseva, E. G.
1499 Surucu, F.
3236 Surucu, G. A.
5020 Surwar, G.
7127 Suryanarayanan, S.
7166 Susnoschi, M.
3863 Suss, A.
9743 Sussman, L.
2754 Suter, E.
4758 Suter, E. R.
4200 Sutherland, B. J.
3257 Sutherland, I. W.
5983 Sutherland, I. W.
9259 Sutherland, J. P.
8844 Sutherland, J. R.
9052 Sutherland, R.
9940 Sutic, D.
8282 Suto, T.
2527 Sutphin, M.
8418 Sutphin, M. S.
9459 Sutphin, M. S.
2944 Sutter, V. L.
3010 Sutter, V. L.
10546 Sutter, V. L.
5367 Sutton, J.
3503 Sutton, J. C.
9855 Sutton, J. C.
3113 Sutton, S. H.
1898 Sutton, T. B.
2081 Sutton, W. D.
10068 Sutton, W. D.
10149 Suveges, T.
61 Suvorov, N. N.
5581 Suvorov, N. N.
9702 Suzangar, M.
4338 Suzdal'skaya, M. V.
10383 Suzukake, K.
4138 Suzuki, A.
4139 Suzuki, A.
5896 Suzuki, A.
6075 Suzuki, A.

Author index

- 9712 Suzuki, A. (Contd)
8373 Suzuki, F.
20 Suzuki, H.
852 Suzuki, H.
3272 Suzuki, H.
5948 Suzuki, H.
10409 Suzuki, H.
6896 Suzuki, I.
7 Suzuki, K.
2446 Suzuki, K.
3247 Suzuki, K.
3809 Suzuki, K.
5906 Suzuki, K.
10564 Suzuki, K.
28 Suzuki, M.
29 Suzuki, M.
1686 Suzuki, M.
3361 Suzuki, M.
4065 Suzuki, M.
6889 Suzuki, M.
7438 Suzuki, M.
7443 Suzuki, M.
8930 Suzuki, M.
10331 Suzuki, M.
5030 Suzuki, N.
873 Suzuki, S.
874 Suzuki, S.
1686 Suzuki, S.
1696 Suzuki, S.
4750 Suzuki, S.
4760 Suzuki, S.
5654 Suzuki, S.
6851 Suzuki, S.
6858 Suzuki, S.
859 Suzuki, T.
1712 Suzuki, T.
2486 Suzuki, T.
3965 Suzuki, T.
4134 Suzuki, T.
7074 Suzuki, T.
7986 Suzuki, T.
9123 Suzuki, T.
10082 Suzuki, T.
847 Suzuki, Y.
3279 Suzuki, Y.
4097 Suzuki, Y.
5128 Suzuki, Y.
5947 Suzuki, Y.
8952 Suzuki, Y.
8365 Svanidze, R. S.
5310 Svecl, L. V.
482 Svechina, R. M.
5178 Svejcar, V.
1227 Svendsen, A. B.
7671 Svenson, S. B.
6004 Svensson, C.
6769 Svensson, M.
9447 Svensson, S.
5471 Sveshnikova, M. A.
8438 Svestkova, Z.
6030 Sveum, W. H.
2620 Svhauserhammer, B.
8291 Vishch, L. G.
8995 Svoboda, G. H.
9607 Svorcova, L.
752 Svrcek, W. Y.
6797 Svrcek, W. Y.
4190 Swain, E. W.
6175 Swain, R. H.
7797 Swaisgood, M. E.
6840 Swan, J. E.
9347 Swan, J. E.
2186 Swanby, S.
4992 Swaney, L. M.
6804 Swaney, L. M.
6067 Swankar, P. A.
4788 Swanson, P. E.
4479 Sward, R. J.
6959 Swart, A.
8265 Swartz, J. R.
250 Sweet, J. B.
7559 Swenson, P. A.
8864 Swift, M. J.
9995 Swift, M. J.
10024 Swift, M. J.
4432 Swinburne, T. R.
7137 Swinburne, T. R.
6974 Swings, J.
2993 Switalski, L. M.
3000 Switalski, L. M.
3003 Switalski, L. M.
4728 Switalski, L. M.
4996 Sykes, G.
581 Sykes, R. B.
5531 Sykes, R. B.
7378 Sykes, R. B.
10122 Sykes, R. B.
2894 Sylvester-Bradley, R.
4770 Symons, R. H.
8332 Synge, C.
8223 Synnott, E. C.
4048 Syresina, G. I.
1293 Syring, R. L.
10392 Syriopoulou, G. P.
2103 Syriopoulou, V. P.
5005 Syrucek, L.
7316 Sytnik, I. A.
2282 Syutkin, P. P.
6149 Syuto, B.
5867 Szabo, E.
6592 Szabo, G.
9235 Szabo, J.
7849 Szabo, L.
8577 Szabo, L.
4700 Szaboczik, J. M.
9454 Szafran, Z.
1631 Szajer, I.
3928 Szakal, S.
8413 Szarapinska-Kwaszewska, J.
5883 Szarek, W. A.
8403 Szarek, W. A.
242 Szathmary, C.
2619 Szathmary, C. I.
5257 Szczepaniak, B.
1718 Szczepaniak, M.
7334 Szczygielska, J.
1797 Szeboitko, K.
82 Szent-Gyorgi, A. S.
6723 Szeremi, K.
1291 Szilagyi, J.
5636 Szinai, S. S.
10407 Szmigielski, S.
9220 Szollosi, A.
2246 Sztaricskai, F.
4821 Sztaricskai, F.
9820 Szejnberg, A.
1250 Szulc, K.
1251 Szulc, K.
2335 Szulgar, T.
2336 Szulgar, T.
861 Szulmajster, J.
3550 Szunics, L.
3550 Szunics, L.
5234 Szejnkowska, E.
68 Szymona, M.
2646 Tabachnik, A. L.
9414 Tabak, M. Ya.
10047 Tabatabai, M. A.
8211 Tabern, W. A.
2896 Tabet, J. C. K.
7663 Tabita, F. R.
2374 Tabor, C. W.
2374 Tabor, H.
2482 Tabuchi, T.
3286 Tabuchi, T.
5893 Tabuchi, T.
8374 Tabuchi, T.
7807 Tachibana, H.
5959 Tachiki, T.
6856 Tacuhert, H.
2556 Tadasa, K.
1756 Tadayon, R. A.
5568 Tadeusiak, B.
3717 Tadeusiewicz, R.
4189 Tadororo-Yasui, S.
8995 Tafur, S.
1666 Tagar, N.
2439 Taggar, I. R.
4046 Taggar, J. R.
3661 Tagger, S.
1401 Tago, K.
5757 Tago, K.
6469 Taguchi, H.
3308 Taguchi, R.
5556 Tahara, S.
10189 Tahara, S.
3342 Tahara, Y.
3348 Tahara, Y.
5151 Tahara, Y.
9016 Tai, F. H.
5713 Tai, J. C.
8841 Tainters, F. H.
8847 Tainters, F. H.
5185 Tait, D. E. N.
5186 Tait, D. E. N.
6658 Tait, S. C.
1503 Tajima, K.
4189 Tajima, M.
5906 Tajima, M.
7637 Tajima, N.
4334 Tajimi, A.
5529 Tak, R.
9597 Takabayashi, T.
1714 Takacs, J.
3377 Takacs, J.
3401 Takacs, J.
10196 Takacsova, G.
9573 Takacz, J.
10348 Takada, M.
8321 Takagi, T.
2093 Takahara, Y.
2905 Takahara, Y.
5028 Takahara, Y.
5818 Takahara, Y.
239 Takahashi, C.
5281 Takahashi, C.
6134 Takahashi, D. M.
6686 Takahashi, H.
2843 Takahashi, I.
9149 Takahashi, I.
2554 Takahashi, I. T.
2263 Takahashi, K.
5907 Takahashi, L.
672 Takahashi, M.
2567 Takahashi, M.
9490 Takahashi, N.
5521 Takahashi, R.
5015 Takahashi, S.
3341 Takahashi, T.
6999 Takahashi, T.
5719 Takahashi, Y.
6628 Takahashi, Y.
9134 Takahashi, Y.
9466 Takahashi, Y.
9117 Takai, H.
1445 Takaishi, C.
10408 Takaishi, T.
873 Takaku, S.
5138 Takakuwa, M.
10331 Takamaki, T.
780 Takamatsu, A.
816 Takamatsu, T.
3847 Takamatsu, T.
2501 Takami, T.
9379 Takamura, F.
9690 Takano, K.
7786 Takano, N.
4812 Takano, S.
7986 Takano, S.

Author index

- 9328 Takao, S.
 2453 Takasaki, Y.
 2454 Takasaki, Y.
 5710 Takasawa, S.
 9149 Takasawa, S.
 9150 Takasawa, S.
 2477 Takashio, M.
 6026 Takatori, K.
 810 Takatsu, A.
 2772 Takatsu, A.
 8196 Takatsuki, A.
 6989 Takeda, A.
 2093 Takeda, K.
 3965 Takeda, M.
 4771 Takeda, M.
 9667 Takeda, T.
 4283 Takeda, Y.
 7056 Takeda, Y.
 8570 Takeda, Y.
 8950 Takeda, Y.
 9698 Takeda, Y.
 9744 Takeda, Y.
 3327 Takemoto, T.
 3278 Takenaka, Y.
 9370 Takenawa, S.
 641 Takeshima, H.
 1436 Takeshima, H.
 5890 Takeshima, H.
 6640 Takeshima, H.
 6940 Takeshima, H.
 8416 Takeshima, H.
 8420 Takeshima, H.
 9139 Takeshima, H.
 9464 Takeshima, H.
 10376 Takeshima, H.
 10377 Takeshima, H.
 3311 Takeuchi, M.
 1691 Takeuchi, T.
 4147 Takeuchi, T.
 5149 Takeuchi, T.
 6483 Takeuchi, T.
 9095 Takeuchi, T.
 9135 Takeuchi, T.
 10357 Takeuchi, T.
 14 Takeuchi, Y.
 6690 Takii, S.
 6691 Takii, S.
 5522 Takima, S.
 4127 Takita, T.
 4147 Takita, T.
 5723 Takita, T.
 5896 Takita, T.
 6628 Takita, T.
 9128 Takita, T.
 10355 Takita, T.
 4040 Takumi, K.
 8592 Talbot, P.-H.-B.
 3191 Tall, D.
 10582 Talley, R.-S.
 9707 Tam, S.-W.
 5030 Tamada, T.
 10168 Tamagawa, K.
 5138 Tamai, Y.
 2257 Tamas, J.
 5907 Tamato, K.
 6605 Tamburasev, Z.
 2594 Tamhane, D.-V.
 9547 Tamine, A.-Y.
 148 Tamine, A.-Y.
 10009 Tamir, H.-M.
 7247 Tamm, C.-O.
 1418 Tamoni, G.
 9712 Tamura
 1391 Tamura, A.
 1392 Tamura, A.
 8196 Tamura, G.
 4138 Tamura, S.
 4139 Tamura, S.
 5896 Tamura, S.
 6636 Tamura, S.
 9338 Tamura, S. (Contd)
 7900 Tan, A.-M.
 358 Tan, B.-H.
 6415 Tan, E.-L.
 6751 Tan, Y.-A.
 1242 Tanabe, I.
 616 Tanabe, M.
 4092 Tanahashi, T.
 3985 Tanaja, Y.
 3278 Tanaka, A.
 4060 Tanaka, A.
 4061 Tanaka, A.
 5521 Tanaka, A.
 5914 Tanaka, A.
 5917 Tanaka, A.
 5957 Tanaka, A.
 9406 Tanaka, A.
 9407 Tanaka, A.
 10102 Tanaka, A.
 5719 Tanaka, H.
 7578 Tanaka, H.
 7709 Tanaka, H.
 5961 Tanaka, J.
 9370 Tanaka, M.
 9475 Tanaka, M.
 1444 Tanaka, N.
 2271 Tanaka, N.
 5050 Tanaka, S.
 889 Tanaka, T.
 3333 Tanaka, Y.
 3403 Tanaka, Y.
 4706 Tanasyuk, L.-I.
 9680 Tandler, K.
 9681 Tandler, K.
 1044 Tandon, M.-P.
 1976 Tandon, M.-P.
 2749 Tandon, M.-P.
 4395 Tandon, M.-P.
 4446 Tandon, M.-P.
 1976 Tandon, R.-N.
 4446 Tandon, R.-N.
 8682 Tandon, R.-N.
 8986 Tandon, R.-N.
 5078 Tannenbaum, S.-W.
 9550 Tanev, G.
 4656 Tang, C.-T.
 7681 Tang, T.
 1427 Tani, Y.
 3258 Tani, Y.
 9538 Tani, Y.
 9530 Tani, Y.
 9328 Tanida, M.
 5730 Tanida, S.
 1440 Taniguchi, M.
 6026 Taniguchi, S.
 5435 Taniguchi, T.
 6947 Tanimura, A.
 1445 Taniyama, H.
 3784 Taniyama, H.
 4820 Taniyama, H.
 5764 Taniyama, H.
 8200 Taniyama, H.
 9160 Taniyama, H.
 10403 Taniyama, H.
 6914 Tanizawa, K.
 7915 Tanne, E.
 9868 Tanne, E.
 5521 Tannenbaum, S.-R.
 7652 Tannenbaum, S.-R.
 2083 Tanner, J.-W.
 6012 Tanner, R.-D.
 9327 Tanner, R.-D.
 3295 Tano, T.
 5513 Tano, T.
 7622 Tano, T.
 9524 Tansey, M.-R.
 841 Tanusio, S.
 4086 Tanyashin, V.-I.
 10504 Tazer, J.-M.
 7699 Taparoky, J.-A.
 2168 Tapia, A.
 4747 Tapytkova, S.-D.
 5619 Tapytkova, S.-D.
 5620 Tapytkova, S.-D.
 6656 Taqi-Eddin, A.-R.
 5299 Tarabeih, A.-M.
 8756 Tarabeih, A.-M.
 2282 Taranova, G.-P.
 2555 Taranova, L.-A.
 4877 Tarantini, F.
 1379 Tarasova, S.-S.
 3052 Tarasova, S.-S.
 4782 Tarasova, S.-S.
 10328 Tarasova, S.-S.
 6408 Tardieux, A.-D.-P.
 9290 Tarlton, R.-A.
 4957 Tarnok, I.
 3386 Tarplan, G.
 1900 Tarran, J.
 3087 Tarumov, V.-S.
 6668 Tarumov, V.-S.
 6264 Tas, P.-W.-L.
 10638 Tas, P.-W.-L.
 3719 Tastuyama, K.
 7725 Tatani, S.-R.
 2070 Tate, C.-J.
 3571 Tate, K.-G.
 5991 Tate, M.-E.
 7267 Tate, R.-L.
 6556 Tatem, B.-A.
 5771 Tato, P.
 1223 Tatsumi, C.
 975 Tatsuno, T.
 10166 Tatsuyama, K.
 3454 Tattar, T.-A.
 8857 Tattar, T.-A.
 8522 Tatterson, I.
 494 Taufer, M.
 8242 Taumler, R.
 5545 Tavalaise, Z.
 10135 Tavalaise, Z.
 2597 Tavernier, M.-R.
 9710 Taxes, J.-W.
 7363 Tax, J.
 4 Taylor, A.
 5 Taylor, A.
 8082 Taylor, A.
 5256 Taylor, A.-A.
 5241 Taylor, A.-G.
 3455 Taylor, A.-J.
 10393 Taylor, B.
 2372 Taylor, C.-D.
 10559 Taylor, D.-L.
 291 Taylor, G.-S.
 4353 Taylor, G.-S.
 7929 Taylor, G.-S.
 7993 Taylor, G.-S.
 9510 Taylor, G.-T.
 1408 Taylor, H.-D.
 6376 Taylor, J.-D.
 6379 Taylor, J.-D.
 4702 Taylor, J.-E.
 4605 Taylor, J.-M.
 9384 Taylor, K.-E.
 9385 Taylor, K.-E.
 9608 Taylor, L.-E.
 3876 Taylor, M.-E.-U.
 6046 Taylor, M.-J.
 1650 Taylor, M.-L.
 2306 Taylor, M.-L.
 6155 Taylor, M.-S.
 7971 Taylor, R.-E.
 2238 Taylor, R.-L.
 7679 Taylor, S.
 1650 Taylor, W.
 5585 Taylor, W.
 3079 Tazima, H.
 7281 Tchan, Y.-T.
 7 Tchen, T.-T.
 7733 Te Whaiti, I.-E.

Author index

- 1831 Teakle, D. S.
- 9954 Teasdale, J. R.
- 3762 Teatini, L.
- 3102 Tebbutt, T. H. Y.
- 2048 TeBeest, D. O.
- 3961 Tecson, F.
- 0150 Teggia-Droghir, M.
- 429 Teh, C. K.
- 3621 Teissier du Cros, E.
- 4576 Tejedor, M. C.
- 258 Tejerina, G.
- 9754 Tejerina, G.
- 4350 Tekauz, A.
- 9777 Tekauz, A.
- 9579 Tekinsen, O. C.
- 876 Teller, D. C.
- 3114 Tello, J.
- 8681 Temmen, K. H.
- 512 Tempel, A.
- 3216 Tempest, D. W.
- 6165 Teng, P. S.
- 7118 Teng, P. S.
- 7120 Teng, P. S.
- 3925 Tenk, I.
- 4310 Tenne, F. D.
- 8615 Tenne, F. D.
- 6751 Teo, H. K.
- 8540 Teply, M.
- 2522 Ter Schegget, J.
- 2456 Terada, O.
- 3263 Terada, O.
- 5935 Terada, O.
- 7618 Terada, O.
- 5742 Terahara, A.
- 578 Teraji, T.
- 8961 Terao, M.
- 1632 Terao, T.
- 1826 Terayama, T.
- 5341 Terekhov, V. I.
- 5471 Terekhova, L. P.
- 5618 Terekhova, L. P.
- 9057 Terekhova, L. P.
- 9114 Terekhova, L. P.
- 8414 Terentiev, T. G.
- 565 Tereshin, I. M.
- 4639 Tereshin, I. M.
- 5645 Tereshin, I. M.
- 8389 Tereshin, I. M.
- 8778 Ternovsky, M. F.
- 4899 Terplan, G.
- 4240 Terpstra, C.
- 4045 Terry, C. S.
- 9633 Terry, R. A.
- 3071 Terui, Y.
- 3399 Teruya, K.
- 9740 Teryamam, T.
- 155 Terzaghi, B. E.
- 3389 Terzaghi, B. E.
- 5218 Terzaghi, B. E.
- 7745 Terzaghi, B. E.
- 1398 Testa, R. T.
- 896 Teuber, M.
- 2887 Teveleva, M. K.
- 4560 Teveleva, M. K.
- 8625 Tew, T. L.
- 4412 Tewari, J. P.
- 5434 Tewari, J. P.
- 7143 Tewari, R. P.
- 7140 Tewari, V. P.
- 5265 Tewfik, M. S.
- 6021 Tewfik, M. S.
- 4635 Texier, J.
- 9579 Tezcan, I.
- 10143 Tezcan, I.
- 2093 Tezuka, C.
- 1643 Tezuka, T.
- 5593 Tezuka, T.
- 5673 Thadepalli, H.
- 8135 Thadepalli, H.
- 10232 Thadepalli, H.
- 2062 Thakre, R. P.
- 5479 Thakre, R. P.
- 1091 Thakur, D. P.
- 1965 Thakur, D. P.
- 4462 Thakur, M. R.
- 4469 Thakur, M. R.
- 1058 Thakur, N. N.
- 1110 Thakur, R. P.
- 9626 Thalmann, A.
- 9846 Thanassouloupoulos, C. C.
- 4223 Thangamani
- 196 Thayer, D. W.
- 197 Thayer, D. W.
- 822 Thayer, D. W.
- 3237 Thayer, D. W.
- 4227 Thayer, D. W.
- 1985 The, T. T.
- 2845 Theander, O.
- 9275 Then, R.
- 6382 Theodorou, C.
- 7989 Theodorou, C.
- 9992 Theorhai, I.
- 1586 Therrell, B. L.
- 9146 Theum, H.
- 6826 Thi Son, N.
- 10607 Thibaut, M.
- 9234 Thiel, N.
- 10486 Thiel, N.
- 3980 Thierry, C. L.
- 7824 Thiers, H. D.
- 6141 Thiessen, W. E.
- 3980 Thigpen, J. E.
- 4532 Thind, B. S.
- 1967 Thind, T. S.
- 6170 Thind, T. S.
- 9970 Thind, T. S.
- 10236 Thind, T. S.
- 4422 Thirumalachar, M. J.
- 5436 Thirumalachar, M. J.
- 7591 Thomas, R. W.
- 10605 Thomas, R. W.
- 3128 Thomas, U.
- 4442 Thomas, A. C.
- 3759 Thomas, A. H.
- 2286 Thomas, A. K.
- 4618 Thomas, A. R.
- 7283 Thomas, A. R.
- 4654 Thomas, B.
- 6038 Thomas, B. F.
- 6039 Thomas, B. F.
- 7727 Thomas, B. F.
- 7728 Thomas, B. F.
- 1564 Thomas, B. J.
- 2390 Thomas, B. J.
- 260 Thomas, C. A.
- 8726 Thomas, C. A.
- 9874 Thomas, C. E.
- 7504 Thomas, C. T.
- 4030 Thomas, D. Y.
- 2971 Thomas, E.
- 8177 Thomas, E. W.
- 5655 Thomas, F. E.
- 6587 Thomas, F. J.
- 9576 Thomas, G. M.
- 8015 Thomas, G. V.
- 3669 Thomas, J.
- 2390 Thomas, J. J.
- 8418 Thomas, M. C.
- 9459 Thomas, M. C.
- 2006 Thomas, N. T.
- 9891 Thomas, P. E.
- 5193 Thomas, R.
- 9718 Thomas, R.
- 9536 Thomas, R. F.
- 6038 Thomas, S. B.
- 6039 Thomas, S. B.
- 7727 Thomas, S. B.
- 7728 Thomas, S. B.
- 9536 Thomas, S. B.
- 2570 Thomas, T. D.
- 7746 Thomas, T. D. (Contd)
- 7747 Thomas, T. D.
- 2925 Thomas, W. A.
- 3393 Thomasow, J.
- 9908 Thomke, S.
- 7948 Thompson, A. K.
- 135 Thompson, D. I.
- 8477 Thompson, D. I.
- 5566 Thompson, E.
- 167 Thompson, J. E.
- 632 Thompson, R. H.
- 7113 Thomson, A. D.
- 7171 Thomson, A. D.
- 2095 Thomson, A. W.
- 6108 Thomson, D. J.
- 1787 Thomson, J. E.
- 7011 Thomson, J. E.
- 10601 Thomson, L. A.
- 8804 Thomson, M. C.
- 6957 Thomson, R. H.
- 1902 Thomson, S. V.
- 5439 Thomson, S. V.
- 9240 Thomssen, S.
- 6513 Thone, F.
- 5302 Thongmeearkom, P.
- 9763 Thongmeearkom, P.
- 5646 Thore, A.
- 5700 Thore, A.
- 8154 Thore, A.
- 8967 Thorel, M. F.
- 6944 Thornber, J. P.
- 9291 Thorne, D. S.
- 4720 Thornsberry, C.
- 8051 Thornsberry, C.
- 10277 Thornsberry, C.
- 6977 Thornton, R. J.
- 6310 Thorpe, H. J.
- 8742 Thorpe, H. J.
- 3467 Thouvenel, J. -C.
- 6220 Thouvenel, J. -C.
- 8746 Thouvenel, J. -C.
- 6728 Thraenhart, O.
- 6729 Thraenhart, O.
- 6810 Threlfall, D. R.
- 10540 Throm, R.
- 267 Thrower, L. B.
- 3473 Thrower, L. B.
- 4313 Thrower, L. B.
- 4314 Thrower, L. B.
- 5703 Thrum, H.
- 7364 Thrum, H.
- 10394 Thrum, H.
- 4720 Thrupp, L. D.
- 2931 Thunell, S.
- 10441 Thurley, B. L.
- 8557 Thurm, V.
- 4501 Thurston, H. D.
- 8601 Thy, B. D.
- 4322 Thyrell, J. R.
- 7250 Tiedje, J. M.
- 7263 Tiedje, J. M.
- 5784 Tierney, J. T.
- 6472 Tiesler, E.
- 5781 Tiffet, E. C. Jr.
- 10576 Tigertt, W. D.
- 4827 Tight, R. R.
- 6890 Tikhomirova, A. S.
- 5582 Tikhomirova-Sidorova, N. S.
- 4747 Tikhonenko, A. S.
- 5619 Tikhonenko, A. S.
- 1294 Tikhonova, A. S.
- 10231 Tikhonova, A. S.
- 3623 Tilak, K. Y. B. R.
- 3876 Till, D. G.
- 168 Tillack, J.
- 5579 Tilles, J. G.
- 5614 Tillett, H. E.
- 8492 Tillion, A. W.
- 5193 Tillmanns, G.
- 2996 Tilton, R. C.

Author index

- 5625 Tilton, R. C. (Contd)
5670 Tilton, R. C.
3866 Timar, J.
9163 Timchenko, G. F.
3282 Timko, J.
3760 Timko, J.
3781 Timko, J.
3792 Timko, J.
8398 Timkovskaya, A. F.
5582 Timkovsky, A. L.
2963 Timofeeva, M. M.
4680 Timofeeva, M. M.
7504 Timoney, J. F.
6538 Timoney, R. E.
10053 Timonin, M. I.
1942 Tingey, D. T.
8878 Tinker, P. B.
270 Tinline, R. D.
1891 Tinline, R. D.
6134 Tinline, R. D.
6235 Tinline, R. D.
8626 Tinline, R. D.
7584 Tio, M.
5293 Tiongo, E. R.
2951 Tipker, J.
9291 Tippets, W. C.
2190 Tipple, M.
9716 Tipton, C. L.
4561 Titterney, J. T.
10399 Trilly, Y.
8070 Tironi, C.
1385 Tishler, M.
3809 Tishler, M.
9895 Tisserat, N.
3878 Titenko, M. T.
1740 Titlow, B. D.
10069 Titmanis, Z. V.
506 Titsworth, E.
21 Tiunova, N. A.
5055 Tiunova, N. A.
9373 Tiunova, N. A.
4577 Tiwari, D. P.
7359 Tiwari, M. P.
6076 Tiwari, N. P.
6447 Tiwari, P. N.
6453 Tiwari, V. K.
3199 Tiwari, V. N.
8582 Tixier, G.
10639 Tixier, G.
6437 Tjepkema, J.
453 Tjepkema, J. D.
4597 Tjepkema, J. D.
6436 Tjepkema, J. D.
10336 Tkach, R. W.
7 Tobari, J.
4147 Tobey, H.
2501 Tobey, S.
9360 Tobey, J. F.
115 Tobin, R. S.
7710 Tobin, R. S.
10475 Tobin, R. S.
8365 Tochadze, Z. V.
875 Tochenaya, N. P.
2524 Tochenaya, N. P.
864 Tochikubo, K.
4092 Tochikubo, K.
3280 Tochikura, T.
5943 Tochikura, T.
5959 Tochikura, T.
5976 Tochikura, T.
850 Toda, K.
851 Toda, K.
8930 Toda, S.
5871 Todaro, G. J.
125 Todd, E. C. D.
7412 Todd, J. K.
3141 Todd, M. C.
6406 Todd, R.
485 Todolychuk, S. R.
5195 Toepfer, C. T.
2307 Toerien, D. F.
9226 Toetz, D.
6055 Tofte Jespersen, N. J.
1609 Toivanen, P.
10096 Tokarev, B. I.
3326 Tokes, L.
9379 Tokieda, T.
7750 Tokita, F.
8498 Tokita, F.
1712 Tokiwa, Y.
6635 Tokuma, Y.
9684 Tokumaru, M.
9355 Tokunaga, H.
6698 Tolaney, M.
6502 Tolba, M. N.
6092 Toledo, R. T.
8547 Toledo, R. T.
6333 Toller, R. W.
913 Toller, A.
2351 Toller, A.
2568 Toller, A.
5639 Tolmacheva, T. A.
2631 Torma, A. E.
4143 Torma, K.
4523 Torma, K. S.
3412 Tomasek, K.
9742 Tomasi, M.
9894 Tomasovic, B. J.
2384 Tomasulo, M.
2392 Tomasulo, M.
9725 Tomasulo, P. A.
2168 Tomasz, A.
8126 Tomasz, A.
9388 Tomilina, N. V.
7657 Tominaga, N.
5972 Tominaga, Y.
6881 Tominaga, Y.
31 Tomioka, H.
3288 Tomioka, S.
6553 Tomioka, S.
6623 Tomita, F.
9123 Tomita, F.
7454 Tomita, K.
2218 Tomita, M.
20 Tomita, Y.
1940 Tomiyama, K.
6351 Tomiyama, K.
9883 Tomiyama, K.
2905 Tomizuka, N.
2819 Tomlinson, J. A.
57 Tomorkeny, E.
9382 Tomoyeda, M.
9472 Tomoyoshi, T.
128 Tompkins, R. B.
9678 Tompkins, R. B.
4682 Tonew, E.
8093 Tonew, M.
10182 Tonew, M.
6902 Tonge, G. M.
7785 Tonkinson, L. V.
4039 Tonny, S. J.
4051 Tonomura, B.
1643 Tonomura, K.
5780 Tonomura, K.
7709 Tonomura, K.
2242 Tonooka, Y.
10625 Topchyij, H. K.
4154 Topiwala, H. H.
6914 Toraya, T.
1276 Torchinskaya, N. D.
5682 Tordzhyan, I. C.
7854 Tores-Anjel, M. J.
4632 Torelli, P. C.
5102 Torgov, I. V.
3071 Tori, K.
6433 Toribio, J. A.
7615 Torillo, A. R.
464 Torma, A. E.
1180 Torma, A. E.
1181 Torma, A. E.
8039 Torma, A. E. (Contd)
8933 Torma, A. E.
9581 Torma, P.
6608 Toropova, E. G.
8170 Toropova, E. G.
5583 Torrence, P. F.
1801 Torrey, G. S.
8467 Torrey, G. S.
9651 Torrey, G. S.
8867 Torsvik, V. L.
9996 Tortice, M.
4632 Tortolli, E.
889 Toru, T.
424 Torzhevsky, V. I.
3231 Tosa, T.
9077 Tosa, T.
9364 Tosa, T.
4758 Tosch, W.
2007 Toshi, L. K.
57 Toth, G.
3354 Toth, G. M.
10149 Toth, I.
9473 Toubert, T. P.
7584 Toussoun, T. A.
7334 Touvet, A.
9420 Tovey, J. A.
519 Tovey, M. G.
8432 Towers, G. H. N.
310 Townner, D. B.
3620 Townsend, A. M.
4265 Townsend, J. M.
7076 Townsend, J. M.
7141 Townsend, R.
9782 Townsend, R.
5933 Toyama, N.
3251 Toyama, S.
1246 Tozzini, F.
10406 Trabuisio, L. R.
3304 Traficante, L. J.
3312 Traficante, L. J.
8382 Traficante, L. J.
4457 Trajkovski, V.
4458 Trajkovski, V.
606 Trakhtenberg, M. G.
7766 Trakulchang, S. P.
4772 Trandgenett, D. P.
8257 Trautwein, K.
10396 Traxler, P.
10397 Traxler, P.
123 Traxler, R. W.
6857 Traxler, R. W.
1701 Treiber, K.
2349 Treiber-Klotzer, C.
10050 Treignier, M.
9435 Trejo, W. M.
836 Trella, J. M.
2397 Tremaine, J. H.
6281 Tremaine, J. H.
1367 Trembitskaya, L. S.
3032 Trembitskaya, L. S.
2256 Tresselt, D.
8184 Tresselt, D.
5172 Tressler, R.
9402 Tretyakova, V. A.
477 Treusch, P. J.
2435 Trevelyan, W. E.
9349 Trevelyan, W. E.
3913 Trexler, P. C.
3915 Trexler, P. C.
10440 Trezek, G. J.
2785 Tricerri, P.
4964 Trichopoulos, D.
8267 Trilli, A.
306 Trimboli, D. S.
5491 Trinchant, J. C.
4871 Trine, P. A.
2889 Trinick, M. J.
10069 Trinick, M. J.
341 Triolo, E.
1012 Triolo, E.

Author index

- 1896 Trione, E. J.
5394 Tripathi, N. N.
1884 Tripathi, R. K.
3543 Tripathi, R. K.
3582 Tripathi, S. C.
6507 Tripathi, S. C.
8072 Tripathi, S. C.
10353 Tritz, G. J.
320 Trivedi, B. M.
321 Trivedi, B. M.
2744 Trivedi, B. M.
4498 Trivedi, N.
9708 Troeger, J. M.
1123 Trofast, J.
7437 Trofast, J.
4048 Trofimova, N. P.
1917 Trojan, V. M.
3656 Trollenier, G.
1823 Troller, J. A.
5835 Trombley, C. M.
9078 Troonen, H.
4656 Tropp, B. E.
6944 Trosper, T. L.
9863 Troup, P. A.
4604 Trout, I. J.
7404 Troxell, T. C.
1618 Truants, J. P.
5668 Trubitsin, A. Ya.
984 Trucksess, M. W.
7280 Truelove, B.
888 Trujillo, J. M.
4650 Trukhmanova, L. B.
2652 Trump, B.
8877 Truong Binh
6356 Trupathi, H. S.
7684 Trushina, V. V.
10510 Trust, T. J.
3715 Ts'o, P. O. P.
8687 Tsai, J. H.
280 Tsai, W. H.
1327 Tsai, Y. H.
3306 Tsang, J. C.
3307 Tsang, J. C.
5692 Tsang, J. C.
9103 Tsang, J. C.
10323 Tsang, J. C.
2469 Tsao, G. T.
3979 Tsao, G. T.
5901 Tsao, G. T.
6899 Tsao, G. T.
8280 Tsao, G. T.
9250 Tsao, G. T.
9611 Tsao, G. T.
10054 Tsao, P. H.
42 Tsaplina, I. A.
2496 Tsaplina, I. A.
8353 Tsaplina, I. A.
3287 Tsay, D. D.
993 Tselukh, A. V.
4102 Tseng, T. C.
1628 Tsernoglou, D.
2278 Tsiang, H.
7424 Tsimmer, K.
8352 Tsiropovich, A. S.
4612 Tsokur, N. I.
5099 Tsolas, O.
6065 Tsouli, J.
9466 Tsuchiya, H.
1329 Tsuchiya, K.
6594 Tsuchiya, T.
9089 Tsuchiya, T.
9321 Tsuchiya, Y.
268 Tsuda, M.
47 Tsugita, A.
3071 Tsui, N.
507 Tsuiji, K.
4753 Tsuiji, A.
10248 Tsuiji, A.
508 Tsuiji, K.
8575 Tsuiji, K.
5146 Tsuji, M.
5147 Tsuji, M.
4097 Tsuji, T.
8788 Tsuji, Y.
8417 Tsujino, M.
853 Tsujisaka, Y.
5972 Tsujisaka, Y.
6881 Tsujisaka, Y.
8431 Tsujita, Y.
3346 Tsukagoshi, N.
6482 Tsukamura, M.
7453 Tsukiura, H.
7454 Tsukiura, H.
7455 Tsukiura, H.
2463 Tsumuraya, Y.
10424 Tsunehisa, Y.
7455 Tsuno, T.
3217 Tsunoda, T.
830 Tsuru, D.
2461 Tsuru, D.
4080 Tsuru, D.
5090 Tsuru, D.
1696 Tsuru, S.
10403 Tsuruga, M.
238 Tsuruta, O.
9690 Tsuruta, O.
3719 Tsutsui, O.
10166 Tsutsui, O.
4842 Tsvetkova, N. V.
2449 Tsyrovich, A. S.
366 Tui, C. C.
8703 Tui, C. C.
4598 Tui, C. M.
8912 Tui, C. M.
2892 Tui, J. C.
6198 Tui, J. C.
6442 Tui, J. C.
9760 Tui, J. C.
2880 Tubbs, R. S.
4098 Tuckey, J.
5765 Tudzynski, P.
6136 Tuiter, J.
588 Tuke, G. C.
4272 Tulbovich, E. V.
3432 Tulpule, P. G.
5620 Tulskey, S. V.
1276 Tumanyan, M. A.
7424 Tumanyan, V. G.
5542 Tunevall, G.
7608 Tunnel, E.
5512 Tuovinen, O. H.
6457 Tuovinen, O. H.
8840 Tupas, G. L.
10001 Turchetti, T.
7401 Turck, M.
6657 Turgeon, P. L.
5640 Turk, D. C.
5053 Turkiewicz, M.
4275 Turnbull, P. C. B.
4276 Turnbull, P. C. B.
728 Turner, A. G.
1414 Turner, J. L.
1323 Turner, J. R.
10276 Turner, J. R.
7746 Turner, K. W.
3492 Turner, N. C.
6552 Turner, P.
24 Turner, P. C.
7507 Turner, R. D.
8738 Turner, R. H.
1399 Turner, W. N.
5643 Turner, W. N.
8310 Turovskii, A. A.
1813 Turpin, A.
6215 Turpin, C. A.
7047 Turtle, B. I.
2156 Tushov, E. G.
4270 Tutel'yan, V. A.
7317 Tutumi, M.
9262 Tuxford, A. F.
9338 Tuzimura, K.
7366 Tvete, E.
4285 Twedt, R. M.
3585 Tyagi, P. D.
5440 Tyagi, P. D.
2388 Tyce, Z.
10241 Tydelskaya, I. L.
6843 Tye, R.
3535 Tyihak, E.
2893 Tyler, M. E.
6317 Tyler, R. H.
1544 Tynan, C. I. Jr.
3819 Tyrrell, D. A. J.
2982 Tyrrell, H. J. V.
5695 Tyrrell, H. J. V.
5275 Tyson, T. W.
2280 Tytell, A. A.
5318 Tyulina, L. R.
2262 Tyurikova, R. P.
8518 Tyunwuk, J.
611 Tzianabos, T.
9548 Ubbels, J.
9549 Ubbels, J.
7801 Ubertain, A.
8845 Ublig, S. K.
8584 Ubysz, K.
6553 Uchida, H.
3770 Uchida, J.
10331 Uchida, M.
7086 Uchida, T.
2482 Uchiyama, H.
3333 Uchiyama, M.
3965 Uchiyama, M.
4771 Uchiyama, M.
7056 Uchiyama, M.
8570 Uchiyama, M.
9698 Uchiyama, M.
1258 Uchman, G.
1259 Uchman, G.
9721 Uchytel, T. F.
1812 Udagawa, S.
6026 Udagawa, S.
3234 Udaka, S.
10086 Udaka, S.
7458 Udalova, I. B.
5737 Udalova, T. P.
10370 Udalova, T. P.
10371 Udalova, T. P.
1545 Udey, L. R.
8917 Udris, M.
5780 Uebayasi, M.
6107 Ueckermann, E.
4806 Ueda, M.
6467 Ueda, M.
3355 Ueda, S.
4049 Ueda, S.
4099 Ueda, S.
6001 Ueda, S.
5708 Uehara, M.
4051 Uehara, Y.
5749 Uehara, Y.
3448 Uemura, T.
7683 Ueno, H.
7821 Ueno, I.
70 Ueno, S.
71 Ueno, S.
7454 Uenoyama, Y.
4247 Ueoka, Y.
3719 Ueshima, S.
268 Ueyama, A.
9849 Ueyda, I.
2919 Ugarova, N. N.
10366 Ughetto, G.
8258 Uhlemann, G.
9241 Uhlemann, G.
7386 Uiz, C.
2242 Ukawa, M.
1373 Ukholina, R. S.
5505 Ulasevich, E. I.

Author index

- 8086 Ulian,F.
 3504 Ullasa,B.A.
 4374 Ullasa,B.A.
 7542 Ullmann,U.
 4330 Ullstrup,A.J.
 7221 Ulrychova,M.
 6906 Ulyanov,M.N.
 2668 Umalkar,G.V.
 118 Umbreit,W.W.
 4613 Umbreit,W.W.
 239 Umeda,M.
 7003 Umemoto,Y.
 14 Umezawa,H.
 642 Umezawa,H.
 878 Umezawa,H.
 1691 Umezawa,H.
 4127 Umezawa,H.
 4147 Umezawa,H.
 5149 Umezawa,H.
 5155 Umezawa,H.
 5717 Umezawa,H.
 5723 Umezawa,H.
 5749 Umezawa,H.
 6483 Umezawa,H.
 6594 Umezawa,H.
 6628 Umezawa,H.
 6641 Umezawa,H.
 9095 Umezawa,H.
 9128 Umezawa,H.
 9135 Umezawa,H.
 9462 Umezawa,H.
 10355 Umezawa,H.
 6940 Umezawa,I.
 8416 Umezawa,I.
 8420 Umezawa,I.
 9464 Umezawa,I.
 6594 Umezawa,S.
 9089 Umezawa,S.
 9135 Umezawa,S.
 10307 Umezawa,S.
 6068 Underwood,H.M.
 9654 Underwood,H.M.
 9655 Underwood,H.M.
 9656 Underwood,H.M.
 5882 Ungers,P.
 9096 Ungerechts,J.
 10288 Ungerechts,J.
 9939 Unger,W.D.
 9743 Unnasch,T.
 9058 Unterhalt,B.
 221 Unverferth,J.A.
 693 Unz,R.F.
 4865 Unz,R.F.
 8621 Uoti,J.
 8653 Uoti,J.
 8072 Upadhyay,R.R.
 10138 Upadhyay,J.S.
 4502 Upadhyay,Y.M.
 1378 Upiter,G.D.
 3051 Upiter,G.D.
 4781 Upiter,G.D.
 4782 Upiter,G.D.
 2091 Upper,C.D.
 3464 Uprety,B.C.
 2807 Upstone,M.E.
 10593 Upton,G.W.
 4067 Upton,M.E.
 5297 Uri,I.I.
 9692 Uriah,N.
 7880 Urban,Z.
 6667 Urbaneck,D.
 7648 Urbanek,H.
 3895 Urbanowicz,A.
 10284 Urbinati,G.
 5586 Uretskaya,G.Y.
 2196 Uri,J.V.
 6575 Uri,J.V.
 1907 Uriu,K.
 2352 Urie,U.
 8853 Urošević,B.
 496 Ursache,R.
 4197 Usajewicz,I.
 8389 Usenko,L.I.
 6529 Usgaonkar,R.N.
 10531 Ushakov,V.M.
 591 Usher,J.J.
 4575 Uspenskaya,G.D.
 6935 Usuyama,M.
 5547 Usuyatsov,B.Y.
 858 Utsumi,S.
 7568 Utsunomiya,S.
 10552 Utter,G.
 6564 Utz,C.
 2232 Utz,C.J.
 2456 Uwajima,T.
 5935 Uwajima,T.
 7618 Uwajima,T.
 6656 Uwaydah,M.
 2446 Uyeda,M.
 3059 Uyeda,M.
 3247 Uyeda,M.
 5746 Uyeda,M.
 1933 Uyemoto,J.K.
 3493 Uyemoto,J.K.
 7901 Uyemoto,J.K.
 9871 Uyemoto,J.K.
 10367 Uzawa,J.
 5502 Uziak,S.
 9825 Uzicanain,B.
 3505 Vaartaja,O.
 5482 Vaartaja,O.
 9264 Vaatanen,P.
 5836 Vacelet,E.
 7291 Vadalkar,K.
 5898 Vadehra,D.V.
 7009 Vadehra,D.V.
 8163 Vadehra,D.V.
 8510 Vadineanu,E.
 3291 Vaganova,T.I.
 2164 Vagina,I.M.
 7721 Vahlefeld,R.
 4068 Vaidyanathan,C.S.
 903 Vaidyanathan,C.S.
 1659 Vaidyanathan,C.S.
 5047 Vaidyanathan,C.S.
 5192 Vaidyanathan,C.S.
 6019 Vaidyanathan,C.S.
 4011 Vail,P.V.
 5862 Vaillant,M.
 2395 Vairo,M.L.R.
 10622 Vairo,M.L.R.
 723 Vaishnav,D.D.
 4885 Vaishnav,D.D.
 10110 Vaishnav,D.D.
 2654 Vaisman,I.Sh.
 2109 Vakil,J.R.
 5405 Vakili,N.G.
 6201 Vakili,N.G.
 828 Vakulenko,V.A.
 3746 Valashek,E.R.
 10131 Valdez,H.
 3233 Valent,J.
 2324 Valent,J.
 5455 Valentine,F.A.
 8394 Valentini,G.
 1680 Valentino,D.
 6550 Valenzuela,E.
 2114 Valiant,M.E.
 5731 Valiant,M.E.
 2656 Valiel,M.V.F.
 6065 Vallah,H.
 6910 Vallee,H.L.
 7535 Valois,F.W.
 1309 Valvachev,N.I.
 3001 Valvachev,N.I.
 7724 van Aalst-Van Maren,N.O.
 3609 Van Aradell,E.P.
 4183 van Arem,E.J.F.
 9905 Van Assche,C.
 6513 Van Beller,H.
 5500 Van Berkump,P.
 6437 Van Berkump,P.
 4183 van Boekel,M.A.J.S.
 7798 van Breemen,P.
 4590 van Brussel,A.A.N.
 2631 van Chuong,P.P.
 5185 Van Clever,K.
 10179 van Damme,J.
 9898 Van de Sanden,P.A.C.M.
 8458 van de Voorde,H.
 3944 van Dedem,G.
 1360 van den Berg,F.M.
 5213 Van den Berg,G.
 2911 van den Berg,L.
 5537 van den Elzen,H.M.
 10257 van den Elzen,H.M.
 9622 Van den Heever,L.W.
 3460 van den Heuvel,J.
 9384 van der Baan,J.L.
 8936 van der Berg,L.
 9589 van der Broek,M.J.M.
 119 van der Drift,C.
 4064 van der Drift,C.
 9622 Van der Made,H.N.
 3880 van der Ryn,S.
 7264 Van der Staay,R.L.
 10250 Van der Veen,J.M.
 7952 van der Vossen,H.A.M.
 1090 van der Westhuben,G.C.A.
 1971 Van der Westhuizen,G.C.A.
 3554 van der Zwet,T.
 8775 van der Zwet,T.
 4013 van Dijk,C.
 4982 van Dijken,J.P.
 9205 van Donsel,D.J.
 1227 van Doorne,H.
 2504 van Doorslaer,E.
 8458 Van Duck,P.J.
 2997 van Dyck,E.
 4960 van Dyck,E.
 8114 van Dyck,E.
 3480 Van Dyke,C.G.
 2869 Van Eck,W.H.
 4592 Van Egeraate,A.W.S.M.
 6487 van Embden,J.D.A.
 8962 van Embden,J.D.A.
 1857 Van Etten,H.D.
 4948 van Goor,A.L.
 4225 Van Grinsven,A.M.
 5239 van Grinsven,A.M.
 6093 van Grinsven,A.M.
 9903 van Gundy,S.D.
 4029 Van Heerikhuizen,H.
 3536 van Hoof,H.A.
 4480 Van Hoof,H.A.
 6313 Van Hoof,H.A.
 9897 Van Hoof,H.A.
 4184 van Hoof,J.
 9225 van Kessel,J.F.
 9925 Van Keuren,R.W.
 8180 van Khan,N.
 6487 van Klingereren,B.
 8962 van Klingereren,B.
 10311 van Lear,G.E.
 10344 van Lear,G.E.
 7573 van Leusden,F.M.
 8209 van Leusden,F.M.
 4476 Van Loon,L.C.
 9898 Van Loon,L.C.
 6576 Van Meerssche,M.
 2950 van Miert,A.S.J.P.A.M.
 1463 van Noorie Jansen,L.M.
 4948 van Ooyen,M.J.J.
 2167 Van Os,J.L.
 7844 van Ramshorst,J.D.
 10175 van Reken,D.E.
 1722 van Renterghem,R.
 4287 Van Sambeek,J.W.
 8574 van Schalkwyk,G.C.

Author index

- 3095 van Schothorst, M.
7523 van Schothorst, M.
7573 van Schothorst, M.
8209 van Schothorst, M.
5347 Van Scoyoe, S.
416 Van Sickle, G. A.
8000 Van Sickle, G. A.
2950 van Soeren, J. H.
2992 van Soeren, J. H.
5001 Van Tuyt, J. M.
1595 van Uden, N.
7904 van Vloten-Doting, L.
5169 Van Vuuren, H. J. J.
9986 van Vuuren, S. P.
9905 Van Wambeke, E.
792 van Weemen, B. K.
6097 van Weerden, E. J.
7158 Van Wyk, P. J.
2305 van Zyl, M.
9905 Vanachter, A.
584 Vanagisawa, H.
9618 Vananuvat, P.
638 Vandamme, E. J.
4805 Vandamme, E. J.
7595 Vandamme, E. J.
5671 Vander Linden, M. P.
5238 Vandercook, C. E.
601 Vanderhaeghe, H.
608 Vanderhaeghe, H.
8164 Vanderhaeghe, H.
10413 Vanderhaeghe, H.
1923 VanderMolen, G. E.
6697 Vanderpost, J. M.
6724 Vanderpost, J. M.
7107 Vanderveken, J. J. F.
1790 Vanderzant, C.
1791 Vanderzant, C.
2612 Vanderzant, C.
2614 Vanderzant, C.
6127 Vanderzant, C.
7803 Vanderzant, C.
7804 Vanderzant, C.
8512 Vanderzant, C.
9540 Vanderzant, C.
451 Vandeventer, J. W.
9567 Vandeweghe, J.
10236 Vandita Prakash, V.
7960 Vanboren, D. M. Jr.
3229 Vane, F. M.
4842 Vaneeva, N. P.
7221 Vanek, G.
4784 Vanek, Z.
6642 Vanek, Z.
7363 Vanek, Z.
7428 Vanek, Z.
10369 Vaner, Z.
8296 VanEtten, H. D.
4770 Vanin, E. F.
7886 Vankata Rao, A.
341 Vannacci, G.
2170 Vannossi, L.
10447 Vanyo, S.
9965 Vardaro, P. M.
6459 Varel, V. H.
6963 Varenne, J.
9226 Varga, L.
6772 Vargina, A. K.
3992 Vargo, V. L.
5353 Varma, A.
5372 Varma, A.
5379 Varma, A.
5464 Varma, A.
3646 Varma, A. K.
6447 Varma, A. K.
516 Varma, J. P.
2925 Varma, M. M.
177 Varnadore, W. L.
1928 Varney, E. H.
7032 Varney, G. W.
9269 Varon, M.
5253 Varsanyi, I.
9802 Varsney, J. L.
2646 Vartanyan, Yu. P.
4641 Vartanyan, Z. S.
9937 Varughese, G.
6841 Vas, K.
6842 Vas, K.
7726 Vasconcellos, J. A.
8471 Vasconcellos, J. A.
10444 Vashkula, N. P.
6301 Vashney, J. L.
939 Vasil'eva, Z. A.
1705 Vasil'kevich, S. I.
7090 Vasil, M. L.
7091 Vasil, M. L.
4762 Vasile, C.
9232 Vasilevskaya, I. A.
6643 Vasilieva, N. G.
10378 Vasilieva, N. G.
7479 Vasilik, G.
673 Vasilyeva, V. B.
9156 Vasina, V. B.
9060 Vasina, T. A.
6151 Vasiu, C.
7625 Vaskivnjuk, N. T.
5064 Vaskivnjuk, V. T.
6891 Vaskivnjuk, V. T.
9567 Vassal, L.
8998 Vassilev, G. N.
4686 Vassileva, R.
1663 Vassileva, R. A.
4964 Vassiliadis, P.
1420 Vater, J.
2679 Vaughan, E. K.
647 Vaughan, P.
2882 Vaughn, C. E.
3414 Vaughn, G. F.
4010 Vaughn, J. L.
4650 Vavilin, G. I.
673 Vavilin, V. A.
10300 Vaya, J.
2429 Vazhinskaya, I. S.
4032 Vazhinskaya, I. S.
2679 Vaziri, A.
8194 Vazques, D.
1706 Vazquez Ladron, R.
4165 Vazquez Ladron, R.
5889 Veazey, F. J.
6110 Vecchietтини, M.
6112 Vecchietтини, M.
1705 Vecher, A. S.
7799 Vedamuthu, E. R.
4710 Vedeneev, K. P.
9060 Vedmina, E. A.
8993 Vedros, N. A.
2739 Veech, J. A.
5962 Veeningen, R.
8646 Veeraghavan, J.
1881 Veeraraghavan, J.
5909 Vehvilainen, H.
1677 Veiga, L. A.
10249 Veinberg, G. A.
6607 Veinstein, V. A.
5995 Vela, G. R.
6542 Velasco, J.
5843 Veldkamp, J.
8998 Velichkova, E. H.
2616 Velings, M.
7031 Velisek, J.
8162 Veltkamp, C.
6109 Vencl, B.
3314 Vender, J.
6844 Venezia, R. A.
6518 Vengris, V. E.
2080 Venkatachari, A.
7270 Venkatachari, A.
7698 Venkatanarayana, S.
7215 Venkatarao, G.
5869 Venkateshan, C. N.
10075 Venkateswarlu, K.
4256 Venkitasubramanian, T. A.
4258 Venkitasubramanian, T. A.
7811 Venkitasubramanian, T. A.
8239 Venkobachar, C.
9236 Venugopal, A. T.
9438 Veradi, J.
2194 Verbist, L.
9232 Vereshchagina, S. A.
161 Vergeader, J.
643 Verheyden, J. P. H.
4366 Verhoeven, A. A.
10482 Verhoff, F. H.
5213 Veringa, H. A.
3068 Verini, M. A.
10233 Verklin, R.
6547 Verklin, R. M. Jr.
2951 Verloop, A.
1063 Verma, A. K.
6096 Verma, D. N.
8283 Verma, D. N.
3530 Verma, H. N.
1030 Verma, J. P.
3595 Verma, J. P.
7913 Verma, J. P.
6895 Verma, N. S.
1083 Verma, O. P.
1891 Verma, P. R.
6235 Verma, P. R.
8829 Verma, R. K.
1065 Verma, V. S.
3464 Verma, V. S.
4371 Verma, V. S.
612 Vernay, H. F.
613 Vernay, H. F.
614 Vernay, H. F.
615 Vernay, H. F.
8892 Vernichenko, L. U.
1348 Vernikova, L. M.
3022 Vernikova, L. M.
5173 Vernon, P. S.
8133 Veronese, F. M.
9008 Veronese, M.
5 Verpoorte, J. A.
928 Verstrate, J. A.
5564 Vertuani, G.
5565 Vertuani, G.
2494 Vesa, V. S.
3313 Vesa, V. S.
6975 Vescovo, M.
4637 Veselova, A. Y.
5505 Veselovskij, I. V.
9991 Vesely, D.
732 Vesley, D.
7069 Vesonder, R. F.
9722 Vesonder, R. F.
1405 Vezina, C.
1406 Vezina, C.
4874 Viana, F. C.
6423 Viana, F. C.
6159 Vianello, A.
8119 Viasova, I. V.
7318 Vibhute, Y. B.
7347 Vibhute, Y. B.
10188 Vibhute, Y. B.
5187 Viccaro, J. P.
4985 Vick, C. M.
4015 Vickery, B.
8097 Vidal-Plana, R. R.
3593 Vidaver, A. K.
10217 Vidaver, A. K.
3353 Vioela, H. A.
281 Vidhyasekaran, P.
1033 Vidhyasekaran, P.
1045 Vidhyasekaran, P.
1049 Vidhyasekaran, P.
1086 Vidhyasekaran, P.
1943 Vidhyasekaran, P.
1944 Vidhyasekaran, P.
1945 Vidhyasekaran, P.
1946 Vidhyasekaran, P.

Author index

- 3481 Vidhyasekaran,P. (Contd)
6245 Vidhyasekaran,P.
78 Vidic,H.-J.
2535 Vidic,H.-J.
4146 Vidic,H.-J.
6475 Vidon,D.
6517 Viehhauser,G.
6250 Viennot-Bourgin,G.
9865 Viennot-Bourgin,G.
10557 Viero,B.
4962 View,J.-F.
3338 Vigevani,A.
9121 Vigevani,A.
6600 Vigh,G.
7460 Vigier,M.
9967 Vigodsky Haas,H.
6247 Vigouroux,A.
9821 Vigouroux,A.
9827 Vigouroux,A.
7277 Vigue,J.-T.
5136 Vijaya,H.-M.
1909 Vijaya Kumar,C.S.-K.
5068 Vijayakumar,P.
610 Vijayavargiya,R.
9223 Vilagines,R.
7615 Vilela,L.C.
1309 Vilenchik,G.Yu.
3001 Vilenchik,G.Yu.
4733 Vilim,A.
4776 Vilim,A.
1361 Vilim,A.B.
1609 Viljanen,M.-K.
30 Villa,T.G.
2465 Villa,T.G.
3277 Villa,T.G.
30 Villanueva,J.R.
2465 Villanueva,J.R.
3277 Villanueva,J.R.
4111 Villanueva,V.R.
755 Villarreal,E.
3967 Villarreal,E.
6065 Villes,A.
1450 Villegas,P.
5582 Vilner,L.M.
10101 Vinarova,A.-Yu.
2223 Vince,T.D.
7188 Vincent,A.P.
1232 Vincent,J.
1233 Vincent,J.
2119 Vincent,J.
4584 Vincent,J.M.
8091 Vindel,J.
4421 Vinello,A.
7517 Vines,J.D.
2639 Vinet,G.
4035 Vining,L.C.
10528 Vinogradov,B.D.
6639 Vinogradova,K.A.
8086 Vio,L.
8428 Viola,F.
6370 Vir,D.
7186 Vir,D.
1850 Vir,S.
2675 Vir,S.
2799 Vir,S.
5376 Viranyi,F.
565 Virina,A.M.
4639 Virina,A.M.
8359 Virtanen,I.
4758 Vischer,W.A.
5607 Vischer,W.A.
5133 Viscontin,M.
5134 Viscontin,M.
4650 Vishnevskii,B.I.
5772 Vissac,J.L.
4442 Visser,F.
4818 Visser,F.M.-W.
5355 Viswanath,S.M.
7153 Viswanath,S.M.
8153 Viswanatha,T.
9335 Viswanatha,T. (Contd)
2605 Vitali,A.A.
10480 Vitaliano,J.J.
414 Viathanage,K.
5560 Vittoria,A.
443 Vives,J.
444 Vives,J.
5025 Viviani,R.
8318 Viviani,R.
243 Viwa,T.
4739 Vladimirov,A.V.
9092 Vladimirov,A.V.
6094 Vladimirov,I.
2697 Vladimirskaia,M.E.
9098 Vladimirskaia,R.A.
9809 Vlahovic,V.
7855 Vlasova,E.V.
6749 Vlcek,V.
226 Vleggaar,R.
2635 Vleggaar,R.
7462 Vlodavets,V.V.
1611 Vnek,J.
930 Voets,J.P.
7658 Vogel,O.
9830 Vogel,R.
5551 Vogel,S.
5154 Vogelmann,H.
119 Vogels,G.D.
3832 Vogelsand,H.
9521 Vogt,K.
5005 Vogt,P.K.
7364 Voigt,D.
8493 Voigt,M.N.
4465 Vojtenok,F.V.
7548 Vojtsekhovskij,V.G.
7363 Vokoun,J.
7364 Vokoun,J.
7428 Vokoun,J.
6262 Volcani,Z.
1589 Voldrich,R.
3618 Volle,D.
10101 Volokh,V.Ya.
8929 Voloshin,N.V.
2140 Volyanskii,Yu.L.
5284 Volynskii,M.Ya.
2646 Volynsky,M.Ya.
5586 Volzhina,O.N.
4383 von Blittersdorff,R.
1420 von Dungen,A.
7541 von Graevenitz,A.
2432 Von Stockar,U.
6874 Von Stockar,U.
10351 von Strandtmann,M.
3143 von Suzani,C.
4799 von Wartburg,A.
10059 Vopenka,L.
4769 Voronina,R.M.
10444 Voronova,G.F.
8348 Voronova,L.I.
7851 Vorontsov,I.V.
8348 Vorontsova,N.N.
4641 Voropaeva,S.D.
3459 Vorrá-Uraiz,S.
4796 Voser,W.
5974 Voskoboev,A.I.
3393 Voss,E.
4160 Voss,H.
6016 Voss,H.
8336 Vosti,K.L.
10550 Vosti,K.L.
7976 Vothe,V.
4915 Votruba,J.
5856 Votruba,J.
7693 Votruba,J.
9247 Votruba,J.
2963 Votyakov,V.I.
4680 Votyakov,V.I.
2434 Voytovich,Z.N.
5882 Voznakova,Z.
3636 Vraný,J.
4033 Vrkoc,J.
1164 Vrugginik,H.
2230 Vtorova,Z.E.
2583 Vukovic,I.
8741 Vulpe,O.
9614 Vuori,A.-T.
7917 Vurro,A.
3697 Vyas,K.M.
1000 Vyas,N.L.
4443 Vyas,N.L.
2801 Vyas,S.C.
4378 Vyas,S.C.
4431 Vyas,S.C.
7908 Vyas,S.C.
6915 Vybornykh,S.N.
10246 Vydrina,E.I.
9183 Vydrova,H.
9518 Vykoukova,I.
1795 Vyncke,W.
4243 Vyncke,W.
8575 Wachtel,R.E.
3 Wada,H.
70 Wada,T.
71 Wada,T.
4952 Waddell,C.C.
1973 Wader,G.C.
1016 Wadhi,S.R.
7347 Wadje,S.S.
10188 Wadje,S.S.
2233 Wadso,I.
3210 Wadso,I.
5699 Wadso,I.
6456 Wadsten,T.
1830 Wadstrom,T.
6195 Wadsworth,D.F.
1722 Waes,G.
3385 Waes,G.
2545 Wagener,R.E.
4645 Waggoner,R.
653 Wagman,G.H.
1398 Wagman,G.H.
5761 Wagman,G.H.
6649 Wagman,G.H.
10262 Wagman,G.H.
3235 Wagner,F.
5104 Wagner,F.
5154 Wagner,F.
8322 Wagner,F.
8401 Wagner,F.
1821 Wagner,F.W.
6564 Wagner,G.
5574 Wagner,G.E.
10566 Wagner,H.N.-Jr.
9626 Wagner,K.
9635 Wagsness,P.J.
4217 Wah,L.T.
9058 Wahbi,A.M.
6927 Waheed,A.
1980 Wahl,I.
4449 Wahl,I.
4719 Wahlig,H.
953 Waibel,P.E.
6406 Waider,J.
6368 Wain,R.L.
7934 Waiss,A.C.-Jr.
6241 Waite,B.H.
2933 Waites,W.M.
6780 Waitkins,S.A.
561 Waitz,J.A.
1398 Waitz,J.A.
3814 Waitz,J.A.
6649 Waitz,J.A.
1002 Wajid Khan,M.
2063 Wajid Khan,M.
1785 Wajid,H.R.A.
9124 Wakae,O.
4563 Wakao,N.
10089 Wake,L.V.
635 Wakelin,L.P.-G.

Author index

- 3520 Wakhrusheva, T. E.
- 1387 Wakisaka, Y.
- 2251 Wakisaka, Y.
- 2261 Wakisaka, Y.
- 2270 Wakisaka, Y.
- 5704 Wakisaka, Y.
- 5705 Wakisaka, Y.
- 7441 Wakisaka, Y.
- 1995 Wakley, D. G. A.
- 2168 Waks, S. B.
- 2522 Walboomer, J. M. M.
- 8652 Waldher, J. T.
- 1775 Waldo, D. R.
- 7045 Waldo, D. R.
- 953 Waldrup, P. W.
- 9704 Wales, J. H.
- 901 Walinofers, P.
- 7795 Walker, B. Jr.
- 5785 Walker, D. H.
- 127 Walker, H. W.
- 7719 Walker, H. W.
- 9679 Walker, H. W.
- 6687 Walker, I.
- 4317 Walker, J.
- 4320 Walker, J.
- 4368 Walker, J.
- 478 Walker, J. D.
- 1184 Walker, J. D.
- 4620 Walker, J. D.
- 4621 Walker, J. D.
- 4623 Walker, J. D.
- 4886 Walker, J. D.
- 7289 Walker, J. D.
- 7290 Walker, J. D.
- 10109 Walker, J. D.
- 10111 Walker, J. D.
- 4161 Walker, J. F.
- 8704 Walker, J. T.
- 7266 Walker, N.
- 1973 Walker, R. R.
- 4660 Walker, R. T.
- 6936 Walkinshaw, M. D.
- 8545 Walkowiak, E.
- 7907 Wall, C. J.
- 10445 Wall, P. J.
- 10007 Wall, R. E.
- 6389 Walla, J. A.
- 379 Wallace, B.
- 2004 Wallace, E. G. R.
- 342 Wallace, H. A. H.
- 5136 Wallace, R.
- 9888 Wallead, B. K.
- 9993 Wallead, B. K.
- 694 Wallen, L. L.
- 8603 Wallen, V. R.
- 4089 Wallenfells, K.
- 8299 Waller, D.
- 4290 Waller, J. M.
- 9021 Wallhausser, K. H.
- 3270 Walli, O. C.
- 6876 Wallick, J.
- 2302 Wallis, C.
- 3875 Wallis, C.
- 3896 Wallis, C.
- 3900 Wallis, C.
- 4005 Wallis, C.
- 6519 Wallis, C.
- 6716 Wallis, C.
- 8243 Wallis, C.
- 9224 Wallis, C.
- 1124 Wallis, G. W.
- 2057 Wallnofer, P. R.
- 6342 Walmsley-Woodward, D. J.
- 10237 Walsh, C. T.
- 4925 Walsh, J. M.
- 8841 Walstad, J. D.
- 1507 Walther, G. R.
- 8956 Walter, H.
- 7028 Walter, J.
- 5129 Walter, J. A.
- 7429 Walter, P.
- 4830 Walter, R.
- 7791 Walters, J. L.
- 10005 Walters, J. W.
- 10005 Walters, N. R.
- 10006 Walterscheidt, M.
- 3609 Walterscheidt, M. J.
- 7554 Walther, R.
- 1809 Walton, G. S.
- 4058 Walton, R. B.
- 8477 Waltz, M. F.
- 7326 Wang, C. Y.
- 6010 Wang, D. I. C.
- 6011 Wang, D. I. C.
- 10222 Wang, D. I. C.
- 2492 Wang, H. -M.
- 4190 Wang, H. L.
- 5216 Wang, H. L.
- 6010 Wang, H. Y.
- 6011 Wang, H. Y.
- 8265 Wang, H. Y.
- 8219 Wang, J. T.
- 8213 Wang, L. K.
- 5078 Wang, P.
- 1746 Wang, P. L.
- 10242 Wang, S. -P.
- 7371 Wang, W. -L. L.
- 9959 Wangikhar, P. D.
- 9646 Wangsness, P. J.
- 1577 Wannamaker, L. W.
- 2439 Wannamaker, L. W.
- 3516 Waraitch, K. S.
- 4532 Waraitch, K. S.
- 8782 Waraitch, K. S.
- 9922 Waraitch, K. S.
- 3188 Ward, A. J.
- 4921 Ward, C.
- 117 Ward, C. H.
- 6519 Ward, C. H.
- 2819 Ward, C. M.
- 10027 Ward, J. C.
- 2590 Ward, K.
- 8284 Ward, L. R.
- 552 Ward, M.
- 2301 Ward, R. L.
- 9302 Ward, R. L.
- 10459 Ward, R. L.
- 4943 Wardlaw, A. C.
- 7156 Wardlaw, I. F.
- 7967 Wards, E. W. B.
- 7324 Ware, D. A.
- 7543 Ware, G. C.
- 8418 Wareheim, D. A.
- 9459 Wareheim, D. A.
- 635 Waring, M. J.
- 10366 Waring, M. J.
- 9277 Warnecke, P.
- 5216 Warner, K.
- 10614 Warnock, D. W.
- 4517 Warren, C. G.
- 8796 Warren, C. G.
- 2223 Warren, G. H.
- 3028 Warren, G. H.
- 4332 Warren, H. L.
- 6215 Warren, H. L.
- 6216 Warren, H. L.
- 6217 Warren, H. L.
- 4280 Warren, J. R.
- 2660 Warren, R. C.
- 324 Was, M.
- 6204 Wasfy, H.
- 2096 Washam, C. J.
- 7799 Washam, C. J.
- 551 Washington, J. A. II.
- 1555 Washington, J. A. II.
- 1580 Washington, J. A. II.
- 3976 Washington, J. A. II.
- 4971 Washington, J. A. II.
- 6578 Washington, J. A. II.
- 7213 Washington, W. S.
- 8806 Washington, W. S. (Contd)
- 678 Wassen, H.
- 7612 Wasserman, B. P.
- 879 Wasserman, H. H.
- 880 Wasserman, H. H.
- 881 Wasserman, H. H.
- 8432 Wat, C. -K.
- 6506 Watabe, K.
- 7074 Watanabe, A.
- 9684 Watanabe, A.
- 8919 Watanabe, I.
- 935 Watanabe, K.
- 1691 Watanabe, K.
- 2427 Watanabe, K.
- 4806 Watanabe, K.
- 9353 Watanabe, K.
- 9412 Watanabe, K.
- 812 Watanabe, K. A.
- 9449 Watanabe, K. A.
- 104 Watanabe, M.
- 6158 Watanabe, M.
- 1219 Watanabe, N.
- 307 Watanabe, T.
- 761 Watanabe, T.
- 4052 Watanabe, T.
- 7317 Watanabe, T.
- 8136 Watanabe, T.
- 10349 Watanabe, T.
- 563 Watanakunakorn, C.
- 5634 Watanakunakorn, C.
- 5642 Watanakunakorn, C.
- 10302 Watanakunakorn, C.
- 10597 Waters, C. A.
- 5583 Waters, J. A.
- 9724 Waters, P. F.
- 6178 Waterworth, H. E.
- 6179 Waterworth, H. E.
- 7938 Waterworth, H. E.
- 8698 Waterworth, H. E.
- 9935 Watkins, J. E.
- 7697 Watson, C. A.
- 246 Watson, D. W.
- 7098 Watson, D. W.
- 6022 Watson, G. K.
- 358 Watson, I. A.
- 7894 Watson, I. A.
- 7707 Watson, J. R.
- 5985 Watson, P. R.
- 7535 Watson, S. W.
- 1542 Watts, B.
- 3664 Watts, H.
- 2071 Waughman, G. J.
- 4976 Wauters, G.
- 8508 Wauters, G.
- 4800 Wax, R.
- 4958 Wayne, L. G.
- 8956 Wayne, L. G.
- 8882 Wearing, A. H.
- 6033 Weatherholtz, W. M.
- 8697 Weathers, L. G.
- 7837 Weaver, G.
- 7838 Weaver, G.
- 7776 Weaver, J. C.
- 6783 Weaver, J. M.
- 898 Webb, A. D.
- 9637 Webb, K. E. Jr.
- 7755 Webb, K. S.
- 4409 Webb, R. E.
- 2852 Weber, B.
- 1453 Weber, C. L.
- 5692 Weber, D. A.
- 184 Weber, H.
- 8550 Weber, H.
- 1411 Weber, H. -P.
- 10136 Weber, M. M.
- 4799 Weber, M. P.
- 6660 Weber, R.
- 10584 Webster, G. F.
- 256 Webster, G. R.
- 4709 Webster, J.

Author index

- 661 Webster, R.G.
 3823 Webster, R.G.
 2779 Webster, R.K.
 2780 Webster, R.K.
 4120 Weckesser, J.
 6612 Weckesser, J.
 4528 wedding, R.T.
 7230 Weddings, R.T.
 8516 Wedler, A.
 8080 Wee, S.-H.
 9473 Weedon, B.C.-L.
 5018 Weeks, G.
 8922 Weeraratna, C.S.
 2569 Wegher, B.
 4625 Wehby, A.J.
 135 Wehr, H.M.
 8477 Wehr, H.M.
 7676 Weir, T.
 317 Weidemann, H.-L.
 6527 Weigand, N.
 2514 Weigel, H.
 2450 Weigert, D.A.
 6014 Weimer, P.J.
 1936 Weinbaum, Z.
 8424 Weinberg, E.D.
 6586 Weinberg, G.A.
 8089 Weinberg, M.
 6985 Weinberg, S.B.
 8085 Weinberg-Zahlering, E.
 8022 Weinhold, A.R.
 4657 Weinmaster, G.
 5745 Weinreb, S.M.
 560 Weinstein, J.
 5643 Weinstein, J.
 653 Weinstein, M.J.
 1398 Weinstein, M.J.
 3814 Weinstein, M.J.
 5761 Weinstein, M.J.
 6649 Weinstein, M.J.
 10262 Weinstein, M.J.
 3763 Weinstock, L.M.
 7726 Weir, W.C.
 8471 Weir, W.C.
 4460 Weisaeth, G.
 2196 Weisbach, J.A.
 6575 Weisbach, J.A.
 10274 Weisbach, J.A.
 10580 Weisburd, M.H.
 7524 Weiser, E.
 5865 Weiss, E.
 5690 Weiss, F.
 8563 Weiss, G.
 7012 Weiss, H.
 5458 Weiss, M.J.
 3177 Weiss, R.L.
 7043 Weissbach, F.
 5731 Weissberger, B.
 7341 Weissenbacher, M.C.
 2362 Weissman, M.
 4079 Weitzman, P.D.-J.
 4133 Weker, H.
 7472 Welborn, R.
 4503 Welch, N.
 603 Weld, H.G.
 10533 Welgreen, H.
 2624 Welianga, L.V.
 2108 Welffen, W.
 5062 Welker, N.E.
 4522 Weller, D.M.
 1504 Wellershaus, S.
 7875 Welling, B.
 8641 Welling, B.
 3677 Wellington, V.C.
 731 Wellisch, M.
 483 Wellman, A.M.
 6446 Wells, B.
 348 Wells, J.M.
 985 Wells, J.M.
 4519 Wells, J.M.
 6388 Wells, J.M.
 7190 Wells, J.M. (Contd)
 9719 Wells, J.M.
 8654 Welsh, J.R.
 6239 Welsh, M.F.
 7901 Welsh, M.F.
 1585 Wender, R.D.
 637 Wendler, N.L.
 2033 Wenham, H.T.
 6484 Wennersten, C.
 4281 Wepper, K.D.
 5615 Werakso, B.
 1507 Werbin, H.
 9381 Werbin, H.
 1322 Werchau, H.
 4106 Wermuth, B.
 8913 Werner, D.
 8914 Werner, D.
 9096 Werner, H.
 10288 Werner, H.
 3911 Werner, H.-P.
 2568 Wernery, H.
 226 Wessels, P.L.
 3339 Wessels, P.L.
 9699 Wessels, P.L.
 537 West, K.
 4211 West, R.L.
 414 Weste, G.
 8597 Weste, G.
 179 Westendorp, J.F.
 9621 Westermann, H.-D.
 10496 Westgarth, D.R.
 8062 Westhead, J.E.
 10388 Westhead, J.E.
 176 Westhoff, D.
 960 Westhoff, D.
 1384 Westley, J.W.
 3787 Weston, A.
 4800 Weston, R.
 3973 Westphal, M.
 1462 Westwood, J.C.N.
 2300 Westwood, J.C.N.
 3109 Westwood, J.C.N.
 7486 Westwood, J.C.N.
 7558 Westwood, N.
 9238 Wettke, K.
 10388 Wetzlar, R.W.
 650 Wewalka, G.
 6735 Wewalka, G.
 10619 Whaiter, P.
 9390 Whale, C.H.
 10545 Whaley, D.N.
 5733 Whaley, H.A.
 6980 Wheatley, M.A.
 6412 Wheatley, R.E.
 7125 Wheelers, H.
 9793 Wheelers, H.
 7305 Wheelers, N.
 2762 Wheelers, R.E.
 2455 Whelan, W.J.
 8837 Whitaker, G.P.
 4491 Whitaker, T.
 1803 Whitaker, T.B.
 2626 Whitaker, T.B.
 5272 Whitaker, T.B.
 537 Whitbourne, J.
 10205 Whitbourne, J.E.
 9030 Whitby, J.L.
 526 Whitcher, J.
 1855 Whitcomb, R.F.
 10590 Whitcomb, R.F.
 6536 White, A.B.
 158 White, C.H.
 4207 White, C.H.
 7506 White, D.C.
 5323 White, D.G.
 5324 White, D.G.
 6214 White, D.G.
 9309 White, D.O.
 9508 White, F.H.
 5035 White, G.B.-B.
 2804 White, J.G.
 4984 White, J.G.
 5424 White, J.G.
 6358 White, J.G.
 5294 White, J.L.
 9465 White, J.R.
 611 White, L.A.
 774 White, M.D.
 10274 White, R.
 8738 White, R.F.
 10530 White, R.J.
 7321 White, R.L.
 2232 White, S.
 618 White, T.J.
 7778 White, W.B.
 9267 Whitehead, P.
 9213 Whitehouse, J.
 3776 Whiteoak, J.R.Jr.
 303 Whiteside, J.O.
 877 Whitlock, H.W.
 3789 Whitlock, H.W.Jr.
 8440 Whitmore, D.J.
 726 Whitmore, E.
 5801 Whitmore, E.J.
 9014 Whitmore, E.J.
 1953 Whitney, E.D.
 2788 Whitney, E.D.
 9893 Whitney, E.D.
 4486 Whitney, G.
 9961 Whitney, N.G.
 2404 Whitney, P.J.
 1125 Whitney, R.D.
 5241 Whittemore, C.T.
 6099 Whittemore, C.T.
 6100 Whittemore, C.T.
 1803 Whitten, M.E.
 473 Whittenbury, R.
 2380 Whittenbury, R.
 9997 Whittle, A.M.
 2351 Whittlestone, W.G.
 732 Whyte, W.
 9254 Wiberg, J.S.
 6976 Wick, E.
 568 Wick, W.E.
 6830 Wickberg, B.
 7437 Wickberg, B.
 6388 Wickers, E.F.
 5431 Wicks, T.
 3618 Wicks, T.J.
 8596 Wicks, T.J.
 3992 Wideman, P.A.
 10546 Wideman, P.A.
 7298 Widh, A.
 1817 Widmer, J.
 3805 Widmer, J.
 7418 Wieber, J.A.
 5234 Wieckowska, E.
 5176 Wieg, A.J.
 6789 Wielgosz, A.
 5291 Wiener, F.P.
 583 Wiering, J.S.
 6954 Wiese, D.
 6232 Wiese, M.V.
 8027 Wieser, P.
 6054 Wigley, R.C.
 8522 Wignall, J.
 1997 Wilbur, W.
 6557 Wilcox, C.
 6565 Wilcox, C.
 6085 Wilcox, J.C.
 10589 Wilcox, W.R.
 6392 Wilcox, W.W.
 10026 Wilcox, W.W.
 4488 Wilcoxson, R.D.
 7108 Wilcoxson, R.D.
 8654 Wilcoxson, R.D.
 8772 Wilcoxson, R.D.
 3394 Wilczynska-Stelmach, W.
 347 Wild, B.L.
 1972 Wild, B.L.

Author index

5535 Wild, J.R.
 4441 Wilde, B.L.
 1148 Wilder, S.A.
 8330 Wildenauer, D.
 9807 Wildermuth, G.B.
 9437 Wilder, B.S.
 4178 Wiles, D.M.
 8536 Wiles, R.
 5911 Wiley, B.B.
 602 Wiley, J.L.
 1383 Wiley, P.F.
 1402 Wiley, P.F.
 1439 Wiley, P.F.
 5124 Wiley, P.F.
 6634 Wiley, P.F.
 7456 Wiley, P.F.
 7456 Wiley, V.H.
 4816 Wilgus, R.
 4552 Wilhelm, G.E.
 2829 Wilhelm, G.E.
 2432 Wilke, C.R.
 2544 Wilke, C.R.
 5929 Wilke, C.R.
 6867 Wilke, C.R.
 6874 Wilke, C.R.
 7585 Wilke, C.R.
 3383 Wilke, R.
 58 Wilkins, A.L.
 2508 Wilkins, A.L.
 1544 Wilkins, J.R.
 4640 Wilkins, T.D.
 4716 Wilkins, T.D.
 6752 Wilkins, T.D.
 7570 Wilkinson, A.E.
 4540 Wilkinson, A.G.
 7305 Wilkinson, B.J.
 0598 Wilkinson, H.W.
 2095 Wilkinson, J.F.
 6105 Wilkinson, J.M.
 6114 Wilkinson, J.M.
 6934 Wilkinson, S.G.
 1461 Wilkowske, R.H.
 5530 Will, G.
 9014 Willcockson, G.W.
 0558 Willcox, W.R.
 1192 Wille, B.
 6843 Willetts, A.
 4167 Willetts, A.J.
 495 Williams, B.J.
 6698 Williams, C.
 6951 Williams, D.C.
 7457 Williams, D.H.
 8199 Williams, D.H.
 7901 Williams, E.
 1999 Williams, E.B.
 5347 Williams, E.B.
 6183 Williams, E.B.
 7961 Williams, E.B.
 6188 Williams, F.J.
 5910 Williams, J.A.
 4906 Williams, J.B.
 6521 Williams, J.C.
 3758 Williams, J.D.
 5819 Williams, M.H.
 0353 Williams, M.V.
 2786 Williams, N.D.
 8837 Williams, P.H.
 6975 Williams, R.A.D.
 5303 Williams, R.J.
 5404 Williams, R.J.
 7194 Williams, R.J.
 3219 Williams, R.J.P.
 1585 Williams, R.P.
 2528 Williams, R.P.
 6779 Williams, R.P.
 4001 Williams, S.T.
 8162 Williams, S.T.
 7100 Williams, T.H.
 8958 Williams, T.W.
 5712 Williams, W.K.
 8174 Williams, W.K.
 2842 Williamson, B.
 10590 Williamson, D.L.
 5841 Williamson, P.
 4933 Willis, A.T.
 9588 Willis, B.D.
 8273 Willis, G.W.
 6886 Willmans, W.
 10911 Wills, W.H.
 8220 Willson, G.B.
 4776 Willson, W.L.
 3320 Willmansk, D.
 7827 Wilson, B.J.
 188 Wilson, C.R.
 1762 Wilson, C.R.
 2385 Wilson, C.R.
 4212 Wilson, C.R.
 7774 Wilson, C.R.
 5209 Wilson, D.
 6888 Wilson, D.B.
 982 Wilson, D.M.
 9708 Wilson, D.M.
 7268 Wilson, D.O.
 10439 Wilson, F.R.
 2464 Wilson, G.
 335 Wilson, G.F.
 7284 Wilson, H.A.
 7478 Wilson, H.A.
 4910 Wilson, L.A.
 364 Wilson, L.G.
 9640 Wilson, L.L.
 10580 Wilson, M.E.
 4214 Wilson, N.D.C.
 6105 Wilson, R.F.
 9633 Wilson, R.F.
 95 Wilson, R.J.H.
 6973 Wilson, R.J.H.
 1207 Wilson, S.G.
 1361 Wilson, W.L.
 4733 Wilson, W.L.
 4785 Wilson, W.L.
 7928 Wilson, W.R.
 8298 Wilt, J.C.
 6259 Wimalajeewa, D.L.S.
 7111 Wimalajeewa, D.L.S.
 8638 Windels, C.E.
 5121 Wingard, P.
 9141 Winkelhake, J.L.
 9725 Winkelstein, J.A.
 7784 Winkler, V.W.
 8543 Winslow, R.L.
 7472 Winstrom-Olsen, B.
 3388 Winterhoff, D.
 4630 Winterhoff, D.
 4176 Winters, H.
 4177 Winters, H.
 5212 Winterton, D.
 5181 Wiodarczyk, Z.
 6762 Wirsen, C.O.
 2257 Wirthlin, T.
 7863 Wisbey, B.D.
 8685 Wisbey, B.D.
 5785 Wise, D.L.
 2195 Wise, R.
 4825 Wise, R.
 8068 Wise, R.
 2626 Wisner, E.H.
 3182 Wisingerova, E.
 9623 Wisniewski, H.J.
 9951 Witcher, W.
 4778 Withander, L.
 4029 Witholt, B.
 5583 Witkop, B.
 539 Witkowski, R.J.
 4541 Witmer, C.R.
 4545 Witmer, C.R.
 8424 Witney, F.R.
 3229 Witt, C.G.
 3112 Witter, L.D.
 7729 Witter, L.D.
 9283 Witter, L.D.
 9024 Wither, M.
 7754 Witting, O.
 634 Witty, T.R.
 9102 Witzke, N.M.
 4903 Wlodawer, A.
 5733 Wnuk, R.J.
 6637 Wnuk, R.J.
 9432 Wober, G.
 6466 Wodzinski, R.S.
 6041 Woelfel, C.G.
 7068 Wogan, G.N.
 7808 Wogan, G.N.
 4808 Wohlrabe, K.
 8027 Woiodode, J.
 4609 Wojan, K.E.
 1258 Wojciak, L.
 1259 Wojciak, L.
 1975 Wojciechowska, B.
 5257 Wojciechowski, J.
 6861 Wojskowicz, J.
 6862 Wojskowicz, J.
 6918 Wojskowicz, J.
 1798 Wolcott, T.
 2617 Wolcott, T.
 1580 Wold, A.D.
 4971 Wold, A.D.
 5653 Wold, J.S.
 10276 Wold, J.S.
 3642 Woldendorp, J.W.
 1360 Woldringh, C.L.
 5231 Wole, H.-O.
 4601 Wolf, D.C.
 6911 Wolf, J.
 9027 Wolf, J.
 6544 Wolfer, M.S.
 7700 Wolfer, N.L.
 4954 Wolfer, R.S.
 6458 Wolfer, R.S.
 8548 Wolfer, S.K.
 1636 Wolff, J.
 9240 Wolff, R.
 5426 Wolfman, S.A.
 3960 Wolgemuth, R.L.
 3616 Wolking, F.
 4537 Wolking, F.
 6400 Wolking, F.
 7060 Woller, R.
 1457 Wollum, A.G.
 3772 Wolny, J.D.
 8129 Wolny, J.D.
 4071 Woloszczuk, W.
 1816 Wolstenholme, J.
 5282 Wolstenholme, J.
 2599 Wolstrup, J.
 8363 Woltjes, J.
 1900 Wong, A.-L.
 4640 Wong, J.
 432 Wong, J.N.F.
 26 Wong, J.T.-F.
 38 Wong, K.W.
 3998 Wong, P.
 3658 Wong, P.T.S.
 8981 Wong, R.Y.
 4853 Wong, Y.K.
 4164 Wood, B.J.B.
 9604 Wood, B.J.B.
 123 Wood, E.
 4017 Wood, H.G.
 8843 Wood, J.E.
 3825 Wood, J.M.
 7150 Wood, K.R.
 1554 Wood, N.G.
 3598 Wood, P.McR.
 6350 Wood, R.K.S.
 8602 Wood, R.K.S.
 5927 Wood, T.M.
 3287 Wood, W.A.
 7598 Woodams, E.E.
 8354 Woodams, E.E.
 9939 Woodbridge, C.G.

Author index

- 2587 Woodburn, M.
9471 Woodhead, S.
3871 Woodings, N. H.
6521 Woodman, D. R.
4696 Woodrow, J. R.
4058 Woodruff, H. B.
4344 Woodruff, W. C.
8659 Woodruff, W. C.
1200 Woods, D. R.
9188 Woods, D. R.
4846 Woods, G. T.
4380 Woods, R. D.
8738 Woods, R. D.
1287 Woodsides, W.
1916 Woodville, H. C.
5282 Woodward, C. G.
4588 Wooi, K. C.
1537 Woolridge, E. D.
351 Workman, M.
8720 Workman, M.
3472 Worley, J. F.
4586 Worrall, V. S.
7680 Worth, J.
9261 Worthington, J. M.
6957 Worthington, R. D.
555 Wotton, S.
587 Wotton, S.
5913 Wcuters, J. T. M.
149 Woychik, J. H.
2157 Wozniak-Parnowska, W.
5615 Wozniak-Parnowska, W.
8271 Wozny, M. A.
6544 Wratten, S. J.
10632 Wray, C.
5834 Wren, M. W. D.
7544 Wren, M. W. D.
8266 Wren, S. J.
10543 Wretling, B.
6897 Wright, E. E.
9376 Wright, B. E.
2323 Wright, D.
2324 Wright, D.
1711 Wright, D. J.
560 Wright, J. J.
5643 Wright, J. J.
3062 Wright, L. F.
8418 Wright, L. H.
9880 Wright, N. S.
3229 Wright, R. S.
7104 Wrischer, M.
9862 Wrischer, M.
5902 Wu, C. S.
5294 Wu, F. S.
8212 Wu, L.
7885 Wu, M. M. H.
987 Wu, M. T.
3436 Wu, M. T.
2144 Wu, W. N.
1099 Wu, W. S.
1120 Wu, W. S.
7202 Wu, W. S.
9884 Wu, W. S.
4934 Wuhrmann, K.
4503 Wulick, J.
5193 Wunsche, C.
1236 Wurbach, G.
8411 Wurster, M.
9396 Wurtz, B.
7323 Wust, J.
5227 Wuthrich, A.
8517 Wyatt, L. J.
10617 Wyatt, R. D.
769 Wyatt, T. D.
1295 Wyborne, C.
2683 Wyllie, T. D.
4622 Wyman, J. F.
9187 Wyman, T. N.
583 Wynberg, H.
1449 Wysokinska, T.
4836 Wysokinska, T.
9537 Xavier, A. J.
2442 Xavier, A. V.
2443 Xavier, A. V.
8331 Xavier, A. V.
3977 Xilinas, M. E.
8275 Xilinas, M. E.
564 Ximenes, J.
752 Xuyen, V. T.
1925 Yaacobi, Y. Z.
5742 Yaber, J.
7458 Yablokova, L. N.
5015 Yabu, K.
9361 Yabuki, M.
3199 Yadav, A. S.
1237 Yadav, L. D. S.
6514 Yadav, L. D. S.
10171 Yadav, L. D. S.
3344 Yadav, N. K.
3345 Yadav, N. K.
5142 Yadav, N. K.
7009 Yadav, N. K.
3585 Yadav, O. P.
9393 Yadomae, T.
1811 Yagen, B.
7075 Yagen, B.
10348 Yagi, A.
9497 Yagi, H.
864 Yagi, K.
2905 Yagisawa, M.
2402 Yaguzhinskaya, O. E.
6506 Yagyu, M.
10389 Yahagi, Y.
2634 Yakatan, G. J.
609 Yakhontova, L. F.
2512 Yakovlev, V. A.
3898 Yakovieva, G. P.
32 Yakovleca, M. B.
639 Yakovlev, G. I.
2916 Yakovlev, G. I.
4809 Yakovleva, E. P.
6685 Yakovleva, G. P.
7932 Yakovleva, V. I.
2887 Yakubovich, L. S.
8873 Yakubova, R. M.
5508 Yakubovsky, S. E.
10146 Yamabe, S.
4168 Yamada, H.
6833 Yamada, H.
9393 Yamada, H.
10099 Yamada, K.
761 Yamada, M.
3 Yamada, S.
1826 Yamada, S.
2538 Yamada, S.
5400 Yamada, S.
9740 Yamada, S.
932 Yamada, T.
5922 Yamada, T.
6481 Yamada, T.
3342 Yamada, Y.
3348 Yamada, Y.
3367 Yamada, Y.
5151 Yamada, Y.
6984 Yamada, Y.
7332 Yamada, Y.
2607 Yamagishi, A.
36 Yamagishi, S.
10173 Yamaguchi, H.
10174 Yamaguchi, H.
9667 Yamaguchi, J.
3665 Yamaguchi, M.
6689 Yamaguchi, T.
9089 Yamaguchi, T.
10380 Yamaguchi, T.
7637 Yamaguchi, Y.
7638 Yamaguchi, Y.
7639 Yamaguchi, Y.
7685 Yamaguchi, Y.
8369 Yamaguchi, Y.
9379 Yamaha, T.
7083 Yamakawa, Y.
7686 Yamakawa, Y.
9477 Yamakawa, Y.
9478 Yamakawa, Y.
2470 Yamaki, T.
5710 Yamamoto, M.
6150 Yamamoto, A.
6641 Yamamoto, H.
3280 Yamamoto, K.
5976 Yamamoto, K.
3524 Yamamoto, M.
3531 Yamamoto, M.
4408 Yamamoto, M.
9149 Yamamoto, M.
9150 Yamamoto, M.
3903 Yamamoto, H.
10 Yamamoto, S.
37 Yamamoto, S.
2466 Yamamoto, S.
9394 Yamamoto, S.
10424 Yamamoto, S.
6850 Yamamoto, T.
8587 Yamamoto, T.
8954 Yamamoto, T.
10095 Yamamoto, T.
7434 Yamano, H.
4753 Yamano, T.
10248 Yamano, T.
5051 Yamanaka, K.
8399 Yamanaka, K.
9354 Yamanaka, K.
2914 Yamanaka, S.
9796 Yamanaka, S.
9797 Yamanaka, S.
5589 Yamanaka, T.
6146 Yamanaka, T.
5966 Yamane, K.
767 Yamane, T.
5163 Yamane, T.
10521 Yamane, T.
3308 Yamanegi, M.
3077 Yamanishi, T.
10381 Yamanishi, T.
5730 Yamano, T.
3180 Yamaoka, K.
3813 Yamasaki, K.
8196 Yamasaki, M.
847 Yamasaki, Y.
5947 Yamasaki, Y.
6889 Yamashina, I.
3231 Yamashita, K.
3275 Yamashita, K.
10168 Yamashita, K.
7683 Yamashita, M.
8343 Yamashita, M.
1691 Yamashita, T.
8950 Yamashita, Y.
2539 Yamazaki, M.
1660 Yamazaki, N.
1329 Yamazaki, Y.
5609 Yamazumi, I.
7802 Yamuchi, K.
9684 Yanagawa, K.
10424 Yanagawa, R.
1328 Yanagisawa, H.
4737 Yanagisawa, H.
2426 Yanai, A.
2481 Yanai, A.
9571 Yanai, Y.
8280 Yang, C. M.
4990 Yang, F. J.
5854 Yang, G. C. H.
197 Yang, H. H.
2415 Yang, H. S.
2521 Yang, H. S.
2548 Yang, H. Y.
1638 Yang, L. M.
4853 Yang, P. Y.
4854 Yang, P. Y.

Author index

- 319 Yang, S.
7604 Yang, S.-S.
197 Yang, S.-P.
7177 Yang, Y.-S.
2917 Yano, T.
1639 Yanofsky, C.
4584 Yao, P.-Y.
5268 Yao, R.-C.
5410 Yap, T.-C.
7640 Yaphe, W.
1451 Yapijakis, C.
1059 Yaraguntaiah, R.-C.
1916 Yarham, D.-J.
1424 Yarmchuk, L.
1425 Yarmchuk, L.
2282 Yaroshevskaya, I.-Yu.
8348 Yarovenko, V.-L.
10223 Yarovenko, V.-L.
436 Yarwood, C.-E.
9949 Yarwood, C.-E.
4803 Yashima, S.
5063 Yasnova, L.-N.
6955 Yassein, M.
9112 Yassein, M.
616 Yasuda, D.-M.
3251 Yasuda, M.
5028 Yasuda, N.
5957 Yasuhara, S.
7317 Yasui, K.
55 Yasui, T.
56 Yasui, T.
5100 Yasui, T.
5101 Yasui, T.
5706 Yates, P.
7563 Yau, A.-O.-P.
9768 Yayock, J.-Y.
7234 Yazaki, Y.
2263 Yazawa, K.
8852 Yde-Anderson, A.
1014 Yeager, M.
513 Yeast, J.
3978 Yee, R.-B.
7404 Yeh, C.-Y.
8512 Yeh, C.-S.
5566 Yeisley, H.
2900 Yen, T.-F.
400 Yen, Y.
5143 Yeo, R.-G.
592 Yeou-Ruoh Chui, J.
4928 Yergey, A.-L.
2433 Yermachenko, V.-A.
4917 Yeroshin, V.-K.
2434 Yevdokimova, G.-A.
6141 Yocum, R.-R.
8392 Yoda, K.
9715 Yoder, O.-C.
10630 Yohn, D.-S.
827 Yokogawa, K.
1204 Yokokura, T.
50 Yokosawa, H.
642 Yokose, K.
1814 Yokoseki, M.
8567 Yokota, K.
8954 Yokota, T.
8960 Yokota, T.
2197 Yokota, Y.
2998 Yokota, Y.
5661 Yokota, Y.
9412 Yokote, Y.
7686 Yokotsuka, I.
9477 Yokotsuka, I.
9478 Yokotsuka, I.
7704 Yokotsuka, T.
2264 Yokoyama, K.
6469 Yokoyama, K.
10176 Yokoyama, K.
3251 Yonaha, K.
5730 Yoneda, M.
7086 Yoneda, M.
1407 Yonehara, H.
2483 Yonehara, H. (Contd)
5722 Yonehara, H.
920 Yoneya, T.
4164 Yong, F.-M.
9604 Yong, F.-M.
8264 Yoona, H.
7632 Yorifuji, T.
8765 York, D.-W.
1798 York, G.-K.
2517 York, G.-K.
7041 York, M.-D.
9031 York, P.
767 Yoshida, F.
5163 Yoshida, F.
9497 Yoshida, F.
6833 Yoshida, H.
642 Yoshida, K.
672 Yoshida, K.
1634 Yoshida, M.
9117 Yoshida, M.
3247 Yoshida, S.
9490 Yoshida, S.
6469 Yoshida, T.
8539 Yoshida, T.
8896 Yoshida, T.
239 Yoshihira, K.
3965 Yoshikawa, K.
3709 Yoshikawa, M.
3710 Yoshikawa, M.
7586 Yoshikawa, M.
10374 Yoshikawa, M.
4189 Yoshikawa, S.
5906 Yoshikawa, S.
70 Yoshikumi, C.
71 Yoshikumi, C.
1503 Yoshimizu, M.
4143 Yoshimoto, A.
830 Yoshimoto, T.
2461 Yoshimoto, T.
4080 Yoshimoto, T.
646 Yoshimura, J.
827 Yoshimura, Y.
10057 Yoshinari, T.
8196 Yoshino, H.
2242 Yoshino, S.
9988 Yoshioka, H.
6561 Yoshioka, K.
4127 Yoshioka, T.
9128 Yoshioka, T.
5718 Yoshioka, Y.
5281 Yoshira, K.
2448 Yoshitake, J.
2540 Yoshitake, J.
1812 Yoshizawa, T.
2934 Yoshpe-Purer, Y.
4715 Yotter, D.-W.
5627 Yotter, D.-W.
3198 Youatt, J.
666 Youmans, A.-S.
666 Youmans, G.-P.
4870 Young, D.-C.
9075 Young, D.-W.
1545 Young, E.
7015 Young, E.-P.
8056 Young, F.-E.
8057 Young, F.-E.
6936 Young, G.
10250 Young, G.-R.
7895 Young, H.-C.-Jr.
884 Young, I.-G.
6684 Young, J.-C.
979 Young, J.-W.
7123 Young, K.
8637 Young, K.
5715 Young, L.-S.
5750 Young, L.-S.
7439 Young, L.-S.
10227 Young, L.-S.
9440 Young, M.
1815 Young, P.-S.
7751 Young, R.
9635 Young, T.-R.
5671 Yourassowsky, E.
3072 Yousef, A.-E.-S.-A.
2991 Yousef, R.-T.
1295 Youssef, N.
7360 Yousten, A.-A.
2165 Yrjos, J.-W.
7390 Yu, A.-B.-C.
8648 Yu, C.-M.
9798 Yu, K.-S.
7177 Yu, P.-H.
831 Yu, T.
832 Yu, T.
8360 Yuan, R.
8041 Yugen, R.
3279 Yuki, T.
3665 Yukuyama, A.
4041 Yuler, R.
9327 Yunker, J.-M.
6165 Yunus, A.
9 Yura, T.
2223 Yurchenco, J.-A.
1705 Yurchenko, L.-A.
2915 Yurchenko, V.-V.
1308 Yurchuk, V.-V.
4495 Yurganova, L.-A.
6286 Yurganova, L.-A.
2246 Yurina, M.-S.
9056 Yurina, M.-S.
9118 Yurina, M.-S.
4596 Yurkovay, G.-N.
6866 Yusupova, M.-P.
2156 Yuzbashev, V.-G.
3386 Zadhaf, K.-J.
6724 Zaaly, J.-F.-J.
6725 Zabalza Fernandez, M.-A.
7624 Zabin, I.
3835 Zabolocki, K.
7458 Zabolotnaya, O.-S.
6764 Zabransky, R.-J.
10229 Zabransky, R.-J.
9122 Zaccara, A.
6490 Zachariae, H.
6136 Zachariah, G.
8762 Zadoks, J.-C.
9746 Zadoks, J.-C.
5506 Zadrazil, F.
10541 Zafari, Y.
2756 Zagatto, A.-G.
6498 Zaher, M.-R.
7481 Zahner, R.
2273 Zahner, H.
3878 Zaidenova, A.-M.
6495 Zaidi, S.
40 Zaikina, N.-A.
8010 Zainal, A.-S.
1975 Zajac, K.
9284 Zajc-Satler, J.
483 Zajic, J.-E.
752 Zajic, J.-E.
3202 Zajic, J.-E.
6797 Zajic, J.-E.
7630 Zajic, J.-E.
9476 Zajic, J.-E.
6391 Zak, B.
6611 Zak, I.-R.
278 Zak, J.-C.
4758 Zak, O.
931 Zakhariev, Z.-A.
5667 Zakharova, G.-M.
6579 Zakharova, G.-M.
3134 Zakharova, L.-I.
3836 Zakharova, M.-A.
9812 Zakharova, T.-I.
1305 Zakhlebnaaya, O.-D.
6985 Zaki, M.-H.
1794 Zaki, M.-S.
9414 Zakirov, M.-Z.

Author index

- 2098 Zakrevsky, V. I.
9162 Zakrzewski, K.
10634 Zalas, E.
2433 Zalashko, M. V.
9479 Zalashko, M. V.
411 Zalasky, H.
2388 Zaleska, H.
1599 Zaleska, M.
1600 Zaleska, M.
8984 Zalesov, V. S.
7648 Zalewska-Sobczak, J.
265 Zambettakis, C.
7432 Zamojski, A.
9742 Zampieri, A.
4181 Zandstra, T.
5286 Zanen, J.
8585 Zanen, J.
494 Zangger, J.
4948 Zantinge, B.
7032 Zapatka, F. A.
3946 Zaporozhtsev, L. N.
9697 Zare, R. N.
4638 Zaremba, M.
10569 Zaremba, M.
5489 Zaretskaya, A. N.
9789 Zarkovic, Z.
3331 Zarubina, E. K.
7424 Zasedatelev, A. S.
1378 Zaslavskaya, P. L.
3051 Zaslavskaya, P. L.
4791 Zaslavskaya, P. L.
5711 Zaslavskaya, P. L.
7417 Zaslavskaya, P. L.
9099 Zaslavskaya, P. L.
7360 Zassenhaus, P. H.
5578 Zasukhina, G. D.
9909 Zauberman, G.
2941 Zawisza-Zenktele, W.
4426 Zazzerini, A.
2256 Zbarsky, V. B.
8110 Zdanovich, Yu. V.
9737 Zebec, M.
4115 Zedan, H. H.
5981 Zedan, H. H.
7670 Zedan, H. H.
8400 Zedan, H. H.
6394 Zegar, E. J.
4934 Zehnder, A. J. B.
8757 Zehnder, H. J.
419 Zeikus, J. G.
4174 Zeikus, J. G.
6014 Zeikus, J. G.
637 Zelawski, Z. S.
9015 Zelenko, A. P.
7401 Zeleznik, D.
3252 Zelinka, J.
3253 Zelinka, J.
3254 Zelinka, J.
3282 Zelinka, J.
3297 Zelinka, J.
3298 Zelinka, J.
3760 Zelinka, J.
3781 Zelinka, J.
3792 Zelinka, J.
3793 Zelinka, J.
3794 Zelinka, J.
3795 Zelinka, J.
8173 Zelinka, J.
3282 Zilinkova, E.
3760 Zilinkova, E.
3794 Zilinkova, E.
8173 Zilinkova, E.
3449 Zeller, W.
7138 Zeller, W.
2648 Zemanovic, M.
2157 Zembrzaska, E.
8587 Zenda, H.
5618 Zinkova, V. A.
9056 Zinkova, V. A.
6946 Zinova, G. M.
7882 Zenteno Zevada, M.
2745 Zentmyer, G. A.
3510 Zentmyer, G. A.
4299 Zentmyer, G. A.
5349 Zentmyer, G. A.
6240 Zentmyer, G. A.
3406 Zerger, S.
8097 Zerrilli, L.
5082 Zetelaki, K.
6841 Zetelaki-Horvath, K.
6842 Zetelaki-Horvath, K.
334 Zettler, F. W.
8695 Zettler, F. W.
9857 Zettler, F. W.
6908 Zevaco, C.
1863 Zeyen, R. J.
8470 Zezulkova, M.
1075 Zezyukin, A. I.
6341 Zgorkiewicz, A.
8997 Zgorniak-Nowosielska, I.
6772 Zhdanocare, L. G.
1899 Zhdanov, V. V.
5345 Zhdanov, V. V.
7340 Zhdanova, L. V.
1917 Zheltonozhskaja, L. V.
12 Zherebilo, O. E.
5581 Zhigachev, V. E.
5120 Zhigis, L. S.
8436 Zhirova, V. V.
2282 Zhukov, A. N.
2503 Zhukov, V. G.
4722 Zhukov, V. G.
4791 Zhukov, V. G.
5711 Zhukov, V. G.
9099 Zhukov, V. G.
2484 Zhukova, I. G.
9107 Zhukova, R. A.
10306 Zhukova, R. A.
10379 Zhukova, R. A.
1296 Zhukovskaya, S. A.
1348 Zhukovskaya, S. A.
1362 Zhukovskaya, S. A.
2988 Zhukovskaya, S. A.
3022 Zhukovskaya, S. A.
3033 Zhukovskaya, S. A.
4775 Zhurovskaya, S. A.
7424 Zhuze, A. L.
8439 Zhvirblyanskaya, A. Yu.
2904 Ziakun, A. M.
9963 Ziedan, M. I.
6967 Ziegler, H.
10516 Ziegler, H.
3816 Zielinski, J.
6132 Zielinski, W. L. Jr.
3893 Ziemińska, S.
869 Ziemska, R.
870 Ziemska, R.
10524 Zierdt, C. H.
1162 Zil, L. M.
4872 Zillmann, U.
10080 Zimdahl, R. L.
7994 Zimka, J.
6266 Zimmer, D. E.
5362 Zimmerman, G.
8775 Zimmerman, R. H.
5393 Zimmerman-Gries, S.
4758 Zimmermann, W.
4071 Zimniak, P.
2193 Zinchenko, E. Ya.
8138 Zinchenko, E. Ya.
19 Zinchenko, O. N.
2612 Zink, D. L.
6796 Ziobrowski, J.
1609 Ziola, B. R.
3394 Ziurawik, Z.
9550 Zivkova, A.
9284 Zlata Gragas, A.
3806 Zocher, R.
1377 Zodyan, M. O.
368 Zoga, H.
2191 Zoglio, M. A.
8086 Zonta, F.
6445 Zorin, M.
7631 Zorin, N. A.
2823 Zote, K. K.
8372 Zouchova, Z.
8784 Zoumbi, A. M.
8295 Zrazhevskaya, T. G.
357 Zuter, M. S.
9784 Zuter, M. S.
7284 Zuberer, D. A.
64 Zuckov, V. A.
4887 Zucchetti, P.
3457 Zucker, M.
1367 Zueva, V. S.
3032 Zueva, V. S.
8955 Zueva, V. S.
3744 Zuger, R.
8158 Zukowski, E.
10303 Zurowski, E.
5887 Zulikowski, W.
4316 Zummo, N.
9866 Zummo, N.
2622 Zuner, M. S.
9122 Zunino, F.
7166 Zuta, Z.
5548 Zutsni, S. K.
425 Zviagintsev, D. G.
4556 Zvyagintsev, D. G.
9290 Zwadyk, P. Jr.
8973 Zwart, H. G. F.
1109 Zwick, W.
3773 Zwischenbrugger, H.
2916 Zyakun, A. M.
492 Zykova, T. N.
8971 Zykova, T. N.

Patentee & assignee index

A.E.Staley Mfg.Co. 846 2502
 AB Akerlund & Rausing 6122
 Abblard,J.G. 3576
 Abbott Lab. 1772 3046 3064 4777 4817 4993 5157
 5726 8181
 Adams,C.D. 391
 Agence Natl.de Valorisation de la Rech.(ANVAR)
 2532
 Agence Natl.de Valorisation de la Rech.(ANVAR)
 517 1571 3226 5769 5803 8201 9444
 Agence Natl.de Valorisation de laRech.(ANVAR)
 3115
 Agence Natl.de Valorisation de la Rech.(ANVAR)
 2523
 Agency of Ind.Science & Technol. 2 820
 Agrotechnika 1492
 Air Prod. & Chem.Inc. 1474 2311 3117
 Aircro Inc. 9212
 Ajinomoto Co.Inc. 13 65 66 814 857 871 1569
 1687 1688 1689 3230 3233 4038 4122
 5027 6838 8320 9331 9333
 Akro-Medic Eng.Inc. 6759
 Akvadan A/S 8233
 Akzona Inc. 1546
 Aldag,W. 713
 Allergan Pharmaceuticals 1284
 Altair Ind.Inc. 5789
 Amano Pharmaceutical Co. 9368
 Amchem Prod.Inc. 2015
 American Cyanamid Co. 201 1114 1394 1477 2151
 2285 2812 2987 3058 3581 3800 4509
 4511 8087 10194 10228 10418
 American Home Prod.Corp. 1339 2211 2275 3020
 3027 3687 4891 5665 6730 6731 9735
 American Hosp.Supply Corp. 2162
 American Potato Co. 969 7052
 American Sterilizer Co. 1278
 Amstar Corp. 87
 Andary,W.A. 1281
 Anderson,A. 7053
 Anheuser-Busch Inc. 9397
 Antonio Gallardo SA 6571
 Armour & Co. 9673
 Armstrong,D.L. 4472
 Asahi Kasei Kogyo KK 3057 8989
 Astra Lakemedel Ag 5638 10296
 Atara Corp. 3888
 Autotrol Corp. 8232
 Ayerst,McKenna & Harrison Ltd. 1437
 Babenko,J.S. 2480
 Bactomatic Inc. 759
 Badische Anilin- & Soda-Fabrik Ag 4508
 Baizer,S.S. 7491
 Balmasova,I.P. 8098
 Barefoot,B.B. 1486
 Barer,S.J. 529
 Barker,S.A. 747
 Barnes-Hind Diagnostics 5612
 BASF Ag 1101 2053 3580 3597 3703 7206
 Bashkirsten,V.N. 10415
 Battat,E. 9342
 Battelle Memorial Inst. 3718 4688
 Baugh,C.L. 4676
 Bausch & Lomb Inc. 1547
 Baxter Lab.Inc. 3950
 Bayer Ag 394 504 509 515 748 1225 1226 1356
 1357 1358 2018 2027 2091 2118 2907
 2960 3596 3704 3726 3753 4672 5429
 6589 6590 7207 7208 7209 7217 7405
 7406 7407 7408 7410 8078 8160 8161
 8262 8816 8815 8816 8817 8818 9003
 9065 9357 9973 9979 9987 9988 10158
 10172 10295 10299
 Beare,A.S. 10417
 Becton Dickinson & Co. 1290
 Beecham Group Ltd. 556 557 1271 1345 1354 1532
 2172 2222 3008 3037 3038 3039 3334
 3766 3931 7337 7395 7396 8084 8189
 9085 9086 9087 10290 10298
 Behringwerke Ag 2287 3833
 Betz Lab.Inc. 2320 10470
 Bio-Medical Sci.Inc. 10208
 Biochemie GmbH 4735 10400
 Biospherics Inc. 4924
 Bioteknika Int.Inc. 9526
 Biseibutsu Kagaku KK 6961
 Bishop,M. 3737
 Blanchaud,M. 964
 Blendax-Werke R.Schneider & Co. 1538
 Board of Regents State of Florida 6374
 Board of Trustees of the Leland Stanford Junior
 Univ. 762
 Boehringer Ingelheim GmbH 4931
 Boehringer Mannheim GmbH 23 1220 2117 2142
 3688
 Boeing Co. 2314
 Bofors AB 2425
 Boikov,I.D. 1539
 Bolidan Ag 8012
 Bowen,W.H. 747
 Bratland,A. 9560
 Brewing Patents Ltd. 5171
 Bristol-Myers Co. 617 631 2225 2253 3016 3073
 4757 5685 7413 8140 10239 10308
 British Food Mfg. Ind.Res.Assoc. 3941
 British Petroleum Co.Ltd. 1717 1765 3666 5240
 BronsBoveri & Cie Ag 2364
 Brookfield,R.A. 4710
 Buchin,P.I. 8098
 Buckman Lab.Inc. 1261 6526 8076
 Buerger,H. 10532
 Bunger,R.E. 1476
 Burchell Nursery Inc. 4455
 Burroughs Wellcome Co. 500 1224 1245 2947
 C.F.Spiess & Sohn 9994
 Calva-Pellicer,C. 3938
 Campbell Soup Co. 957
 Canada Packers Ltd. 2965
 Canadian Patents & Dev.Ltd. 7461
 Cattaneo,P. 968
 Cela Merck GmbH & Co.KG 7212
 Centaur Chem.Co. 2359
 Central Contra Costa Sanitary District 712
 Central Properties Co.Ltd. 7805
 Centre for Ind.Res.Ltd. 189
 Ceres Prod.Co.Inc. 806
 Cetus Corp. 785
 Chem.Fabrik Kalk GmbH 2854
 Chemed Corp. 1255
 Chepigo,S.V. 2537
 Chester,F.B. 3869
 Chevron Res.Co. 1115 1190 3728 7336 7987
 Chichkova,L.A. 8098
 Chinoi Gygyszter-es Vegyeszeti Termekek Gyar
 RT 8079
 Chugai Seiyaku KK 2181 2250
 Chumakov,P. 10415
 Ciba-Geigy Ag 510 531 1117 1335 2013 2129 2808
 2809 2810 3006 3684 4157 4158 6365
 8040 8810 8813
 Ciba-Geigy Corp. 469 967 1313 2135 2141 2207
 3577 3660 3724 3934 4505 4513 7211
 7224 9982 10156
 Claudel SA 9562
 Coca-Cola Co. 943
 Colgate-Palmolive Co. 1535 1536 2145 2146 2949
 3905 3930 3932 5598 8261
 Community Blood Council of Greater New York
 Inc. 657
 Continental Can Co.Inc. 4250
 Cornell Res.Found. 2375
 Cornell Res.Found.Inc. 6061
 Cornell Univ. 7006
 Corning Glass Works 9352
 Cosan Chem.Corp. 1213
 Coulthard,J.L. 10466
 Cowan,S.M. 5602
 CPC Int.Inc. 838 839 1649 6931 6932 6933 7668

CPC Int.Inc. (Contd) 7669

Cremagnani, A. 968

Cunningham, W.E. 6761

Cywinski, J.W. 1254

Czarnetzky, E.J. 1796

D'Aubert, S. 968

Da Luz, A.P. 3014

Dai-Nippon Sugar Mfg.Co.Ltd. 2365

Daicel Ltd. 9517

Dainippon Pharmaceutical Co.Ltd. 2946

Dart Ind.Inc. 3742

Davis, R.B. 10431

Dawson, G.C. 2978

Debourge, J.-C. 3576

Degremont SA 1479

Degremont Soc.Generale D'Epuraton &

D'Assainissement 1468

Delin, P.S. 2327

Delmar Chem.Ltd. 3729

Denki Kagaku Kogyo KK 3248

Derreumaux, A. 7500

Design Alliance Inc. 1497

Desowag-Bager Holzschutz GmbH 10033

Deutsche Gesellschaft fur Schadlingsbekampfung

mbH 4253

Deutsche Gold & Silber- Scheideanstalt vormals

Roessler 2602

Deutsche Texaco Ag 10035

Diamond Shamrock Corp. 1470 3124 5595 6504

7037 8832

Diggs, R.E. 3884

Discwasher Inc. 472

Distillers Co.(Yeast)Ltd. 937 938 1622 9592

Diversey Ltd. 3921

Dorr-Oliver Inc. 1490

Dow Chem.Co. 1263 1264 2019 2139 3584 6726

Dow Corning Corp. 470

Dragerwerk Ag 670 1508

Drennen, R.E. 3736

DSO'Pharmachim' 2416

Du Pont of Canada Ltd. 3119 3881

Ducret, J.J. 3576

Dynek Corp. 718 9215 9216

E.I.Du Pont de Nemours & Co. 572 1104 1105

1111 4514 9974 10091

E.Kahn's Sons Co. 1792

E.R.Squibb & Sons Inc. 8143

E.R.Squibb & Sons Inc. 524 571 573 1316 1337

1338 1376 2174 2201 2203 2212 3040

3050 3768 4692 5666 5679 5707 6569

8142

Eastman Kodak Co. 2794

Ecodyne Corp. 709 3883 3885

Ecolotrol Inc. 699 1480

Edebo, L. 9256

Edwards, V.T. 764

Eli Lilly & Co. 200 404 574 577 623 624 1113

1279 1311 1331 1340 1390 2138 2175

2210 2215 2239 2265 3005 3799 5649

5979 6570 6573 6619 6665 7216 9625

9976 9989 10279 10281 10338 10339

10340 10341

Energy Res. & Dev.Administration 5925

Entreprise de Recherches & D'Activites

Petrolieres(ERAP) 5021

Era Inc. 10465

Erich Peters & Co. 9206

Etablissements Joseph La Garde 1779

Ethyl Corp. 6524

European Plastic Machinery Mfg.A/S 1478

Exxon Res.& Eng.Co. 3118 3887 4057 4699

F.Hoffmann-La Roche & Co.Ag 497 773 2942 5978

8972

F.Hoffmann-La Roche Co.Ag 10291

Fairmont Foods Co. 9685

Farbenfabriken Bayer Ag 80

Fehmerling Associates 3422

Feldmuhle Anlagen & Produktions GmbH 7796

Fellows, A.N. 3904

Ferraro, B.N. 1531

Ferraro, K.N. 1531

Firma Heinrich Frings 7534

Fisons Ltd. 3578

Flow Pharmaceuticals Inc. 1282 1283

FMC Corp 2332

Forest, J.G. 1796

Forschungsinst.fuer die Gaerungsind.,Enzymol.&

Technische Mikrobiol. 93

Fry, L.J. 1183

Fuji Oil Co.Ltd. 9599

Fujisawa Pharm.Co.Ltd. 1351 3015 3802 10346

Fumoto, C. 1694

G.D.Searle & Co. 1216 1221 2137 5580 5980 7338

9009 9441 10161 10195

Gagarina, A.V. 10415

Gatineau, J.A.G. 7805

Gailliard, J.-M. 3576

Gay, M.M. 912

Gea Ag 6501

Gen.Environ.Science Corp. 3121

General Electric Co. 1187 2366 2367 2368 2369

4922 5829 5830 9496

General Foods Corp. 1788 6129

General Signal Corp. 714

Gist-Brocades NV 4736 5637 9430

Givaudan Corp. 7320

Glaxo Lab.Ltd. 569 1330 3764 3765 4734 5663

5664 5677 5678 6572 7373 7393 7394

7409 8125 8132

Glorieux, G. 10214

Goldberg, I. 9342

Gololobin, A.D. 2537

Green Cross Corp. 4832

Griffon, H. 6823

Grigoriev, E.F. 2480

Gruppo Lepetit SpA 1270 8186 10320 10402

GRW & Associates Inc. 8241

Gujer, H. 700

Gustavsbergs Fabriker AB 5787

H.Wolff Apparatebau KG 3419

Ham Baker & Co.Ltd. 698

Harsco Corp. 705

Hartmann, H. 2317

Haug, L.A. 3120

Hayashibara Biochem.Lab.Inc. 4081 8408

Heds Inc. 7490

Heinrich Koppers GmbH 1491

Heinrich Mack Nachf 3164

Henkel & Cie GmbH 195 2149 2318 3126 3933 8102

Hercules Inc. 5791 9984

Hershey Foods Corp. 8307

Herzog, P. 1516

Herzog-Thomander, K. 1516

Hitachi Chem.Co.Ltd. 9326 10464

Hoechst Ag 383 384 1256 2009 2112 2113 2132

2133 2816 3587 3588 3810 5790 6727

8104 8807 8820 10384

Hoffmann-La Roche & Co.Ag 8978

Hoffmann-La Roche Inc. 627 750 763 1352 1353

1403 1773 3160 10337

Hojo, T. 2420

Hokkaido Sugar Co.Ltd. 842 5944 9391

Home Prod.Corp. 7349

Houdaille Ind.Inc. 3882

Howard Harvestore Ltd. 1469

Howell, C.J. 2354

Hurka, W. 1522

Hydrotherm Corp. 2355

ICN Pharmaceuticals Inc. 3727 8088

Iizuka, C. 1694

IMC Chem.Group Inc. 9104

Imperial Chem.Ind.Australia Ltd. 1685

Imperial Chem.Ind.Ltd. 84 345 392 395 405 534

1119 1495 2020 2823 4512 4687 6116

Imperial Chem.Ind.Ltd. (Contd) 7223 7287 9334
 9401 9643 9978
 Imshenetsky,V.V. 2537
 Industriewerke Karlsruhe-Augsburg Ag 2984
 Inst. Francais du Petrole 5021
 Inst. Merieux 669
 Inst. Pcliomielitai Virusnykh Entsefalitov
 Acad.Med.Nauk SSR 10429
 Inst. Frzemyslu Farm. 5688
 Inst.Eickhim.Imeni A.N.Bakha,Akad.Nauk SSR
 9336
 Inst.Chem.Przemyslowej 2936
 Inst.Francais du Petrole 3663
 Inst.Luso-Farmaco SARL 9048
 Inst.Microbiol. & Hyg.of the Univ. of Montreal
 2965
 Inst.Mikrobiol.Imeni Augusta Kirkhenshtenia
 Akad.Nauk Latviiskoi SSR 9336
 Inst.Mikrobiol.Imeni Augusta Kirkhenshteina
 Akad.Nauk Latviiskoi SSR 2423
 Inst.Mikrobiol.Imeni Augusta Kirkhenshteina
 Akad.Nauk.Latviiskoi SSR 2422
 Inst.Nat'l de la Rech.Agronomique 4221
 Intellectual Property Dev.Corp. 867
 Interx Res.Corp. 1267
 ISF Soc. per Azioni 1350
 Ishigaki Koko Co.Ltd. 4868
 Ishihara Sangyo Kaisha Ltd. 4506
 Ist.Chemioterapico Italiano SpA 4661
 ITT Inc.Inc. 727 1484
 Ivanova,G.I. 2537

Jackson & Perkins Co. 4474 6343
 Jet Aeration Co. 704 708
 Johnson & Johnson 3743 9231
 Jones,J.A. 3937

Kabi AB 789
 Kabushiki Kaisha Furukawa Seisakusho 966
 Kaelin,J.R. 701 2310 3123 9209 10462
 Kageyama,B. 2420
 Kanegafuchi Chem.Ind.Co.Ltd. 8292
 Kao Soap Co.Ltd. 2126
 Kayaku Antibiotic Res.Co.Ltd. 3803
 Kaye,S. 2363
 Kenyon,C.L. 1510
 Keystone Eng. & Products Co.Inc. 8235
 Khanina,M.K. 10415
 Kikkoman Shoyu Co.Ltd. 1716 5885
 Kitasato Inst. 1395 1396 3093 6953 9456
 Kobayashi,K. 2420
 Kordes,R. 1096
 Kraftco Corp. 971
 Kreuter,J. 4867
 Krka Tovarna Farmaceutskih in Kem.Izdelkov
 4764
 Kukers,W. 3733
 Kulikov,V.M. 2537
 Kumiai Chem.Ind.Co.Ltd. 1496 2014 4072 7979
 Kumiai Chem.Ind.Inc. 7982
 Kurahashi,S. 4889
 Kyowa Hakko Kogyo KK 817 2604 7601 9148 9325

L'Air Liquide,Soc.Anonyme pour l'Etude &
 l'Exploitation des Procedes Georges Claude
 10461

L'Oreal 749
 L.Givaldan & Cie Soc.Anonyme 1217 3721 8425
 Lab.Landerlan SA 1349
 Lab.Roger Bellon 502
 Lacroix,G.-B. 3576
 Langley Hill Quarry 1481
 Launey,P.A. 4978
 Lebo,W.R. 2312
 Leffler,W.A. 8025
 Leningradskoe Proizvodstvenno-Khozyaistvennoe
 Obiedinenie Kozhevennykh Predpriyatiy 5956
 Leningradsky Nauch.Issledov.Inst.Antibiot.
 5956

Leningradsky Politekhichesky Inst. Imeni
 M.I.Kalinina 6664
 Leo Pharmaceutical Prod.Ltd. 1368
 Leprino Cheese Mfg.Co. 1742 9563
 Lever Bros.Co. 2572 4907
 Licencia Talalmanyokat Ertekesito Vallalat
 9600
 Lightning Mixers Pty.Ltd. 9210
 Lincoln Lab.Inc. 4959
 Lion Dentrifrice Co.Ltd. 10502
 Lipkin,A.E. 8098
 Liquichimica SpA 823
 Lo,Y.S. 8146
 Logan,R.E. 1482
 Logan,T.E. 1482
 Logica Int.Corp. 9663
 Lovens Kem.Fabrik Produktionsaktieselskab 597
 1355 1365
 Lynn,H.D. 6714

M & M Livestock Prod.Co.Inc. 3418
 M & T Int.EV 6363
 Malkki,Y. 9650
 Marabou AB 9341
 Martin Marietta Corp. 4031
 Marx,R. 8546
 Massachusetts Inst. of Technol. 1369 3380
 Matburn (Holdings) Ltd. 547
 Mateles,R.I. 9342
 Matsushita Electric Ind.Co.Ltd. 9217
 Maubois,J.L.J. 2575
 Mayer,F.G. 1498
 McCamon,D. 10417
 McClure,R.E. 7353
 McColley,R.H. 4471
 McDonnell Douglas Corp. 1299 1559 3162
 McGredy,S.D. 4473
 Meiji Kaisha Ltd. 15
 Meiji Seika Kabushiki Kaisha 9365
 Meiji Seika Kaisha Ltd. 1435 3061 7399 7400
 10283
 Meito Sangyo KK 45
 Merck & Co.Inc 2209
 Merck & Co.Inc. 505 651 1446 1533 2154 2214
 3091 3332 5111 6505 7392 7673 8137
 9069 9446 10280 10423
 Merck Patent GmbH 825 2200 2468 10330
 Metallwaren Stanz-u. Drehteile,Apparatebau
 Werkzeugbau 9206
 Micarna Ag Fleischwaren Fabrik 8525
 Microbyx Corp. 10520
 MicroLife Technics Inc. 132 1752 2571 2588
 7358

Midwest Res.Inst. 826
 Miles Lab.Inc. 3989 4140 6983
 Milk Marketing Board 153 217
 Millmaster Onyx Corp. 2131 2319 3890 3906
 Mitchell,D.C.P. 6670
 Mitsubishi Chem.Ind.Ltd. 6829
 Mitsubishi Gas Chem.Co.Inc. 781 2316
 Mitsubishi Gas Chem.Co.Inc. 820
 Mitsui Pharmaceuticals Inc. 3246
 Mocquot,G.-P.C.G. 2575
 Molnar,H. 1517
 Montanari,R. 2136
 Morrison,W.L. 1182
 Morton-Norwich Prod.Inc. 1238 10157
 Muller,H. 2360 3381

N.V.Konink.Pharmaceutische Fabrieken V/H
 Brocades-Stheeman en Pharmacia 10192
 Naidin,A.V. 1539
 Nakao Ishida 9451
 Nalco Chem.Co. 1494
 Napco Corp. 2908
 Naremc Co. 2603 5245
 Natl.Patent & Dev.Corp. 8821
 Natl.Res. & Dev.Corp. 2795 2796
 Nestle SA 6118 8362 9561
 New Brunswick Scientific Co.Inc. 10204

Nihon Denshi KK 6535
 Nihon Tokushu Noyaku Seizo KK 1395 1396
 Nikkla, C.E. 9650
 Nill Ross Inc. 8250
 Nippon Gohsei Kagaku Kogyo KK 1467 8529
 Nippon Oil Co. 2961
 Nippon Soda Co., Ltd. 511 6366
 Nobel Scientific Ind., Inc. 8105
 Novex RT 3241
 Novo Industri A/S 5040 5946 9398 9399 9400
 Novo Therapeutisk Lab., A/S 9419
 Nyholm, H. 2356

 O.M. Scott & Sons Co. 3579
 Obolnikova, E.A. 2537
 Olin Corp. 475
 Oneto, P.M. 9507
 Ono Pharmaceutical Co., Ltd. 3290 9374
 Ontario Res. Found. 10463
 Orensten, H.E. 1502
 Orensten, V.C. 1502
 Orgonics Inc. 8231
 Orlov, V. 8098
 Ortho Pharmaceutical Corp. 1552

 P & G Co. 1260 1534 2424
 Parke, Davis & Co. 1312 2254 6629
 Patch, R.J. 1280
 Patterson, L. 3734 8246
 Patton, J.T. 2516
 Pennwalt Corp. 3725 4890 10488
 Peti Nitrogenmuvek 5427
 Petrolite Corp. 3125 3731
 Pfanstiehl Lab., Inc. 10503
 Pfizer Inc. 594 595 803 1298 1380 2125 3689
 3767 3777 4056 6591 8982 10329 10333
 10334
 Pfizer Ltd. 2198 6559 6560 10254
 Pflug, I.J. 2153
 Pharmacia Ag 3949 7602
 Philagro 8808 8809
 Philagro SA 393
 Philips Electronic & Associated Ind., Ltd. 1159
 Phillips Petroleum Co. 821 945 1629 2920 3662
 7292 7691 9320 9343 9494 9495
 Physical Systems Inc. 1515
 Pielkenrood-Vinitex BV 1509
 Pillon, D.J. 3576
 Pillsbury Co. 936
 Pitman-Moore Inc. 668
 Plate Kofasil GmbH 1774
 Pollock, J.R.A. 894
 Ponzi, D.R. 8146
 Poverenny, A.M. 10415
 PPG Ind., Inc. 1235
 Preventive Systems Inc. 992
 Procter & Gamble Co. 5817 9244
 Prod. Org. du Santerre Orsan 4037
 Propper Mfg. Co., Inc. 10220
 Purdue Res. Found. 215 4454

 Quad Corp. 965
 Quaker Oats Co. 1776 5252
 Queen's Univ.-Kingston Ontario 553 1310

 R.H.M., Ltd. 2563
 R.T. Vanderbilt Co., Inc. 9229
 Raytheon Co. 1285
 Rech. & Ind. Therapeutiques (RIT) 658 3084
 Rech. & Ind. Therapeutiques (RIT) 2277 2281
 Reckitt & Colman Prod., Ltd. 8041
 Reimann, H. 711
 Reinert, C.P. 1212
 Ren Vand., Inc. 9211
 Renon, P. 968
 Res. Corp. 5912
 Res. Found. for Microbial Diseases of Osaka
 Univ. 10421 10422
 Res. Inst. for Med. & Chem., Inc. 2147
 Respiratory Care Inc. 8107

 Rhone Poulenc SA 9457
 Rhone-Poulenc Ind. 4765
 Rhone-Poulenc SA 2516 3730 3798 4125 7397 8151
 8552
 Rhone-Progil 8077
 Richardson-Merrell Inc. 525 1247 1248 1249
 1314 1315 2128 3004 3007 7342 8092
 8214 9130
 Richter Gedeon Vegyeszeti Gyar RT 2529 2967
 3714 8058 8059 8060
 Riedel-de Maen Ag 10034
 Rigoli, M. 540
 Rikagaku Kenkyusho 834 9380 9445
 Riker Lab., Inc. 4694 6528 8100
 Rimler, R.B. 10431
 Robert Bosch GmbH 2160
 Robert R. Oldham Inc. 1485
 Robertshaw Controls Co. 6712 6713
 Rohm & Haas Co. 1268 2974 8833
 Rohm GmbH 8386 8387
 Rosenberg, E. 6621
 Rountree, C.B. 6670
 Roussel-Uclaf 1441 2208 8065 8066 10255
 Royal Coll. of Surgeons of England 746
 Rudzitis, E.A. 8098

 S.C.M. Corp. 389
 Sachs-Systemtechnik GmbH 7499
 Sada, P. 5610
 Sagami Chem. Res. Centre 2130 2134
 Samakhvalov, G.I. 2537
 Sandoz Inc. 9489
 Sandoz Ltd. 4693 10159
 Sankyo Co., Ltd. 625 2173 3801 7450 9071 10358
 Sanraku-Ocean Co., Ltd. 2445
 Sarabhai Res. Cent. 9010
 Saunier, B. 7500
 Scherico Ltd. 5760 6530 10335
 Schering Ag 1116 2976 6512
 Schering Corp. 562 1389 1397 1400 7449 8099
 8182 10315 10316 10342 10343
 Schmid, L.A. 7492
 Schreiber, A. 2309
 Schuster, S.J. 1289
 SCM Corp. 7980
 Scott, H.L. 9346
 Secretary of State for Defence, London 3936
 Seikenkai 1487
 Semin, J.A. 10415
 Sevoian, M. 10430
 Sheehan, J.C. 8146
 Shell Int. Res. Maatschappij BV 4009
 Shell Int. Res. Maatschappij BV 7619 9249 9251
 Shell Oil Co. 6510
 Shinkarenko, L.N. 2480
 Shionogi & Co., Ltd. 809 4787 5676 6554 9064
 Siegel, N.H. 706
 Silbert, J.A. 1286
 Sing, E.L. 3395
 Smirnov, V.A. 8098
 Smith, A.J. 707
 Smithkline & French Lab., Inc. 2213
 Smithkline Corp. 570 576 1341 1342 1343 1344
 2115 2199 2204 2205 2206 2383 3018
 3018 3019 3021 3042 3769 3942 6574
 8141 9066 9067 9070
 Snam Progetti SPA 9329
 Soc. d'Assistance Tech. pour Produits Nestle SA
 10519
 Soc. d'Assistance Tech. pour Produits Nestle SA
 1728
 Soc. Farmaceutici Italia 2525
 Soc. Anonima Cros 10147
 Soc. d'Assistance Tech. pour Prod. Nestle SA 73
 74
 Soc. d'Assistance Tech. pour Produits Nestle SA
 3273
 Soc. des Lab. 'Phytotherm' 3137
 Soc. Prod. Antibiot. SPA 2221 2266
 Soc. Prod. Antibiot. SpA. 2267

Societe Anonyme Dite CLIN-MIDY 1317
 Societe Procidia 390
 Sokolsky, B.H. 959
 Somar Mfg.Co.Ltd. 3891
 Sonoyama, T. 2420
 South African Inventions Dev.Corp. 3122 10416
 Southeastern Lab.Inc. 736
 Spraggings, R.L. 8063
 SPRL Phavic 514 1269 2121 2973
 St.Johns Univ. 753
 Stahmann, M.A. 7026
 Stamer, H. 7539
 Stamicarbon BV 3116 6711
 Standard Brands Inc. 5107 9404 9406
 Standard Oil Co. 3404
 Stauffer Chem.Co. 533 2148 2150 2815 2972 4691
 Sterling Drug Co. 3686
 Sterling Drug Co.Inc. 6599
 Sterling Drug Inc. 1483 1489 2943 2948 3139
 8234 10162
 Stichting Rega VZW 10181
 Stitt, P.A. 2313 5786
 Stockel, R.F. 529
 Stork-Amsterdam BV 6120 10202
 Strasler, B.J. 7489
 Stutzman, K.L. 3736
 Sumitomo Chem.Co.Ltd. 596 1118 1273 1363 2945
 4684 5036 5428 8144 8159 8835 9072
 9073
 Sumitomo Heavy Ind.Ltd. 1473
 Sun Oil Co.of Pennsylvania 2341 3140
 Sunstad Dentifrice Co.Ltd. 2510
 Svenska Traforskningsinstitutet and
 Skorgshogskolan 1707
 Sweco Inc. 1488
 Swift & Co. 958 4237
 Sybron Corp. 3732 4697 10198 10199 10201 10203
 10209
 Syntex (USA) Inc. 397 2021 2817 8081 10178

 Tabor, R.G. 1265
 Taisho Pharmaceutical Co.Ltd. 626
 Takeda Chem.Ind.Ltd. 503 567 654 1334 2944
 4096 4118 8309 10282
 Tanabe Seijaku Co.Ltd. 522
 Tanabe Seiyaki Co.Ltd. 598
 Tanabe Seiyaku Co.Ltd. 754 2506 4763 5067 6535
 9330
 Tani, H. 2420
 Tarasova, N.V. 2537
 Tarpax Property Ltd. 3420
 Tee-Pak Inc. 1789
 Teijin Ltd. 2510
 Tennece Chem.Inc. 471 2090
 Tetra Pak Dev.SA 6533 8106
 Tetsyi Syanu 1442
 The University of Southern California 10085
 Thermo Electron Corp. 8108
 Thetford Corp. 702 703
 Thiolliere, J.P. 3576
 Thizy, A. 3576
 Tkachenko, E.A. 10415
 Todd, J.J. 9207
 Tokyo Organic Chem.Ind.Inc. 2026
 Toray Ind.Inc. 813 5892 9323
 Toyama Chem.Co.Ltd. 10297
 Toyo Jozo KK 2202 8175
 Toyo Seikan Kaisha Ltd. 9019 9665
 Trebjesa 9506
 Tymoszczuk, J. 3886
 Tyrell, D.A.J. 10417

 Universal Oil Prod.Co. 2315
 University Patents Inc. 10467
 Upjohn Co. 4789 8166 8193 10256 10318
 US Philips Corp. 2024
 USA as represented by the Administrator of the
 Natl.Aeronautics & Space Administration 5831
 USA as represented by the Dept. of Health, Educ.
 & Welfare 2371
 USA as represented by the Dept. of
 Health, Education & Welfare 520
 USA as represented by the Secretary of Agric.
 532 1416 2906 3413
 USA as represented by the Secretary of the Army
 1777
 USA as represented by the Secretary of the Navy
 1185

 Vassal, L.J. 2575
 Veb Chiemiekkombinat Bitterfeld 3592
 VEB Kombinat Medizin & Labortechnik 536
 Vereinigte Kesselwerke Ag 1472
 Viderker, M.G. 8098
 Villadsen, K.J.S. 1671

 W.R.Grace & Co. 944 1257 1471 5243
 Waldstein, D.A. 10193
 Waltec Ind.Ltd. 9208
 Warner-Lambert Co. 840 1560 3778
 Water Pollution Control Corp. 715
 Wave Energy Systems Inc. 3907 3908
 Weinheimer, A.J. 8063
 Weisz, G.F. 7529
 Wellcome Found.Ltd. 1605 3839 9164
 Westvaco Corp. 546
 Westwood Pharmaceuticals 10322
 Wheatley Chem.Co.Ltd. 5432 5433
 Wibau Westdeutsche Ind. & Strassen-
 Bau-Maschinen GmbH 5788
 Wilkerson, A.L. 1475
 Wilson, C.A. 710
 Wisconsin Alumni Res.Found. 2110 4923
 Wistar Inst. 1447
 Woodruff, L. 4456

 Yagi, S. 2420
 Yamanouchi Pharmaceutical Co.Ltd. 554 575 599
 622 1336 9068
 Yokota, I. 4868

 Zaidan Hojin Biseibutsu Kagaku KK 629 1410
 1422 1690 3785 3808 6596 6836 6960
 9463 10359
 Zenin, B.A. 8098
 Zimmerman, N. 1266
 Ziristor AB 4234
 Ziristor, AB 8532
 Zuckerberg, H. 3733

 Unilever Ltd. 5214
 Union Carbide Corp. 8236
 Uniroyal 1112
 Uniroyal Inc. 1265
 Uniroyal Ltd. 1265
 Univ.of Glasgow 3837
 Univ.of Illinois Found. 1443 3092
 Univ.of Waterloo 6875

Microbiology Abstracts Section A

Industrial & Applied Microbiology



3 8198 313 886 382
THE UNIVERSITY OF ILLINOIS AT CHICAGO

**THIS BOOK IS FOR USE
ONLY IN THE LIBRARY
IT DOES NOT CIRCULATE**



